

OHIO ENVIRONMENTAL PROTECTION AGENCY (OHIO EPA)

**DIVISION OF ENVIRONMENTAL RESPONSE &
REVITALIZATION (DERR)**

**White Engine Inc.
AKA Canton Drop Forge and Hercules Engines Properties
Canton, OH
Stark County**

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Date

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Date

White Engine Inc., Canton
(aka Canton Drop Forge and Hercules Engine)

101 and 200 11th Street Canton, Ohio 44707

Targeted Brownfield Assessment Field Report
Funding source: 128(a) Brownfield Grant

May 24, 2013

INTRODUCTION

The City of Canton has applied to the Ohio EPA Division of Environmental Response and Revitalization (DERR), Site Assistance and Brownfield Revitalization Program (SABR) for a Subsidized Targeted Brownfield Assessment (BTBA). Ohio EPA Site Investigation Field Unit (SIFU) performed a supplemental Phase II ground water investigation at the White Engine/Hercules Engines property and the adjacent Canton Drop Forging Property. A Phase II was completed by the City of Canton's consultant Brownfield Restoration Group (BRG) on November 27, 2008. The additional ground water sampling was needed to address the current remedial strategy and for finalizing the Voluntary Action Program No Further Action Letter (VAP NFA). The analytical data gathered during the BTBA was performed by Test America Canton, Ohio a VAP certified laboratory data in order to allow the applicant to rely on this data for the NFA Letter.

The purpose of this BTBA was to provide current ground water sampling analytical data from potentially 39 monitoring wells using low-flow ground water sampling methodology, in accordance with the Ohio EPA Division of Drinking and Water Monitoring Technical Guidance Manual. The contaminants of interest include volatile organic compounds (VOCs). The ground water samples were analyzed for VOCs by U.S.EPA Method SW-846 8260.

Monitoring well numbers cdfMW-7, cdfMW-10, cdfMW-11, and cdfMW-22, located on the Canton Drop Forging property were analyzed for semi volatile organic compounds (SVOC's) by U.S. EPA Method SW-846 8270 PAH. These four wells have had potential turbidity issues during sampling in the past.

SITE DESCRIPTION AND HISTORY

The former Hercules Engine Corporation was used for manufacturing purposes. Since the closure of Hercules' manufacturing operations, the Property and various portions of the buildings thereon were leased and/or used for various business purposes, including storage facilities and manufacturing operations. Broadview Development Company, LLC. purchased the Property on June 30, 2005 and has been involved in the

development plans since July 2005. The Property has environmental conditions on it which have been documented through environmental assessment work conducted by BRG and others. After much review of the of the environmental issues and also review of studies concerning the locations, both the City and the Developer concluded that a mixed use facility, including a convention center, retail space, office space, residential facilities, and other related and/or consistent uses would be consistent with the highest and best use for the location.

The city received a Cleanup Grant for the Hercules Engines Property from the Clean Ohio Revitalization Fund and is working toward an NFA Letter. The current remedial strategy proposed ground water sampling on the Hercules' Engines site and the adjacent Canton Drop Forging Property. The sampling had to be performed as soon as possible in order to satisfy the requested NFA deadline of June 2013 for the Hercules Engines Property. Therefore, through the use of a Targeted Brownfield Grant, the Ohio EPA DERR/SIFU was tasked with performing the ground water sampling.

Previous Sampling Activities

Phase II environmental site assessments consistent with the American Society for Testing and Materials (ASTM) Standard E 1527-00 were conducted by the Brownfield Restoration Group in 2008.

FIELD WORK SUMMARY

Site maps are included in this document. **Figure 1** displays the location of the subject properties and **Figure 2** displays the location of the monitoring wells and site features.

A work plan was developed by DERR and approved by the U.S. EPA. SIFU conducted a site reconnaissance with BRG at the properties on April 3, 2013. The site reconnaissance consisted of locating and identifying the monitoring wells on both properties. During the walk through of the properties neither BRG nor SIFU were able to locate 3 monitoring wells from the potential 39; the wells are thought to be abandoned or destroyed.

The field investigation activities described below were conducted during the week of April 22-25, 2013. This report documents the field activities conducted during this investigation; the analytical results from the sampling efforts are attached. Any deviations from the work plan are documented in this report.

Ohio EPA-SIFU utilized low flow ground water sampling techniques in accordance with the Ohio EPA Division of Drinking and Water Monitoring Technical Guidance Manual. SIFU monitored both water quality parameters (pH, conductivity, temperature, dissolved oxygen, ORP, and turbidity) and drawdown of the water column during the sampling of the monitoring wells. Two QED Sample Pro Portable MicroPurge® Pumps with disposable bladders were used for the monitoring well sampling. A total of 34

monitoring wells were sampled from the original 36 identified during the site reconnaissance.

Monitoring well numbers cdfMW-5 and MW-18 were not sampled. A water level indicator (WLI) was used to determine that both cdfMW-5 and MW-5 did not contain any ground water. Monitoring well cdfMW-5 had small plant roots were present in the well. Monitoring well cdfMW-11 was sampled using a peristaltic pump, however, no water quality parameters were collected due to the risk of contaminating the water quality meter and flow through cell. This monitoring well contained an oily yellow brown solvent product in the water column. Ohio EPA purged approximately $\frac{1}{2}$ gallon of water and then collected both VOC and SVOC samples for analysis. The sample log sheet is attached to this report.

Monitoring well numbers cdfMW-7, cdfMW-10, cdfMW-11, and cdfMW-22, located on the Canton Drop Forging property were analyzed for both method 8260B and 8270C. These four wells reportedly had turbidity issues during sampling in the past. During the low flow sampling event the turbidity for 3 of the 4 monitoring wells ranged from 17-29.4 NTUs (no parameters were collected from cdfMW-11 due to free product being present in the well).

All the ground water low-flow sampling log sheets and the analytical data package are attached to this report. A total of 41 samples were submitted to the laboratory for analysis. A total of 34 monitoring well samples, 3 duplicate samples, and 4 blanks (ambient, trip blank and 2 equipment blanks) were submitted to the laboratory for analysis by method numbers 8260B analysis and 4 samples for 8270 C analysis. All data were requested to be VAP certified. Purge water was collected in 55 gallon drums that BRG had delivered to the property. BRG disposed of the collected purge water.

Attached to this report are the following documents:

- Figure 1 Site Location Map and Figure 2 Monitoring Well Sample Locations Map
- SIFU Field Log sheets
- Analytical Results with VAP Affidavit

MAPS



Figure 1: Site Location Map
White Engine Inc.
AKA Canton Drop Forge
and Hercules Engines Properties
Canton, OH





Figure 2: Monitoring Well Location Map
White Engine Inc.

AKA Canton Drop Forge
and Hercules Engines Properties
Canton, OH



Sample Log Sheets

Site White Engine
Date 1/20/13

Ground Water Low-Flow Logsheet-Horiba

Pump 18 sucker

WELL	CDFMW-1	PURGE		SAMPLE	
Well ID	18	Purge Rate	720 ml/min	Sample ID	CDFMW-1
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	15.25	Depth of Pump	20	Sample Time	1355
Depth to Bottom	22.1			Analysis	VOA
Screened Interval					

Stabilization Parameters

Parameter	Initial	1320	1325	1330	1335	1340	1345	1350				
pH	6.67	6.56	6.58	6.60	6.61	6.62	6.63					
COND (ms/cm)	1-35	1.46	1.48	1.49	1.49	1.50	1.50					
DO (mg/l)	4.66	3.82	2.35	2.14	1.80	1.79	1.77					
TEMP	16.59	13.22	12.95	12.85	12.80	12.78	12.88					
ORP (mv)	-132	-163	-177	-178	-180	-180	-180					
TURB (ntu)		189	137	114	74	66.9	54.0					

Site White Engine
Date 4/22/13

Ground Water Low-Flow Logsheet-Horiba

Pump ⁰⁰⁰ Bladder
ID 103 @ 38°

WELL		PURGE		SAMPLE	
Well ID	CDF MW-2	Purge Rate	220 ml/min	Sample ID	Cdf MW-2
Size	2"	Drawdown	None	Duplicate ID	-
Depth to Water	15.83	Depth of Pump	~2' off bottom	Sample Time	1155
Depth to Bottom	22.2			Analysis	8260
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1125	1130	1135	1140	1145	1150					
pH	6.34	6.33	6.33	6.34	6.34	6.34	6.35					
COND (ms/cm)	1.47	1.46	1.44	1.45	1.47	1.48						
DO (mg/l)	0.24	0.84	0.0	0.20	0.0	0.0						
TEMP	13.57	14.05	14.00	14.02	13.62	13.55						
ORP (mv)	-95	-102	-127	-135	-140	-150						
TURB (ntu)	81	64	45	41	22	19						

Site White Engine
 Date 4/22/13

Ground Water Low-Flow Logsheet-Horiba

Pump Bladder
DH 130 130 @ 3g

WELL		PURGE		SAMPLE	
Well ID	CDF MW-3	Purge Rate	180 ml/min	Sample ID	CDF MW-3
Size	2"	Drawdown	0	Duplicate ID	—
Depth to Water	17.42	Depth of Pump	2' off bottom	Sample Time	1600
Depth to Bottom	23.80	<i>From Top</i>		Analysis	VOR
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	3:30	1535	1540	1545	1550	1555	1600	1630				
pH	6.75	6.69	6.69	6.70	6.71	6.72	6.73						
COND (ms/cm)	1.17	1.25	1.27	1.28	1.28	1.28	1.28	1.25					
DO (mg/l)	0	0	0	0	0	0	0	0					
TEMP	12.93	12.48	12.41	12.31	12.24	12.29	12.31						
ORP (mv)	69	59	53	50	48	46	40						
TURB (ntu)	454	273	207	108	75	60	49						

Ground Water Low-Flow Logsheet-Horiba

Site White EnginePump SladerDate 4/22/13

WELL		PURGE		SAMPLE	
Well ID	CDFMW-4	Purge Rate	120 20 ml	Sample ID	CDFMW-4
Size	2"	Drawdown	0	Duplicate ID	X505
Depth to Water	19.2	Depth of Pump	22	Sample Time	1505
Depth to Bottom	24			Analysis	UOA
Screened Interval					

Stabilization Parameters

Time ▶	Initial	1440	1445	1450	1455	1500					
pH	6.23	6.14	6.14	6.15	6.16	6.17					
COND (ms/cm)	1.36	1.36	1.36	1.35	1.33	1.33					
DO (mg/l)	0.86	0.42	0.25	0.18	0.10	0.07					
TEMP	15.64	15.33	15.07	14.82	14.95	14.86					
ORP (mv)	173	148	128	108	92	77					
TURB (ntu)	610	418	266	195	129						

Site White Engine
Date 4/22/13 15:25

Ground Water Low-Flow Logsheet-Horiba

Pump bladder

WELL		PURGE		SAMPLE	
Well ID	CDF MW-5	Purge Rate		Sample ID	
Size		Drawdown		Duplicate ID	
Depth to Water		Depth of Pump		Sample Time	
Depth to Bottom		Dry Well Water meter pose stopped at 18.5 feet came back up with 2000 ft		Analysis	
Screened Interval					

Stabilization Parameters

Site

White Engine

Date

4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump ^{DH10}
Bladder

WELL		PURGE		SAMPLE	
Well ID	CDF MW-1	Purge Rate	200 ml/min	Sample ID	CDF MW-1
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	13.75	Depth of Pump	2' above bottom	Sample Time	1225
Depth to Bottom	22	Screened 10' in tube		Analysis	VFA SVOC
Screened Interval	10				

Stabilization Parameters

Parameter \ Time ▶	Initial	1200	1205	1210	1215	1220					
pH	6.83	6.84	6.85	6.87	6.89	6.91					
COND (ms/cm)	1.68	1.68	1.68	1.68	1.68	1.69					
DO (mg/l)	0	0	0	0	0	0					
TEMP	13.11	12.94	12.99	13.00	12.97	12.93					
ORP (mv)	-140	-153	-158	-162	-166	-170					
TURB (ntu)	103	80.9	53.7	45.2	34	20.6					

Site White Engine
Date 4/22/13

Ground Water Low-Flow Logsheet-Horiba

Pump 6 bladder

WELL		PURGE		SAMPLE	
Well ID	CDFMW-9	Purge Rate	50 ml 200 ml	Sample ID	CDFMW-9
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	12.92	Depth of Pump	21.8	Sample Time	1720
Depth to Bottom	23.85			Analysis	VOA
Screened Interval					

Stabilization Parameters

Parameter	Initial	1650	1655	1700	1705	1710	1715	1720				
pH	6.70	6.43	6.44	6.45	6.47	6.47	6.47	6.47				
COND (ms/cm)	0.887	1.17	1.20	1.21	1.21	1.21	1.21	1.20				
DO (mg/l)	3.32	0.99	0.77	3.18	3.93	3.74	3.62					
TEMP	21.35	17.88	17.85	17.40	17.32	17.20	17.13					
ORP (mv)	45	-126	-141	-161	-166	-166	-168					
TURB (ntu)	429	255	219	174	133	69.9	32.4					

Site White Engine
Date 4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump 107A
Bladder

WELL		PURGE		SAMPLE	
Well ID	CDF MW-10	Purge Rate	20 gals/min	Sample ID	CDF MW 10
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	13.44 ft msl	Depth of Pump	"2' do bottom	Sample Time	1110
Depth to Bottom	17.06	Slight Sheen		Analysis	VOA SVOA
Screened Interval	10'				

Stabilization Parameters

Parameter \ Time ▶	1037 Initial	1045	1058	1055	1100	1105					
pH	6.79	6.80	6.84	6.87	6.88	6.89					
COND (ms/cm)	3.04	2.78	2.61	2.40	2.3	2.24					
DO (mg/l)	0.44	0	0	0	0	0					
TEMP	11.55	11.44	11.46	11.48	11.53	11.50					
ORP (mv)	-59	-135	-149	-155	-158	-160					
TURB (ntu)	411	195	150	95.4	38	294					

Site White Engine
Date 4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump bladder

* pure product w/ H_2O

WELL		PURGE		SAMPLE	
Well ID	CDFMW-11	Purge Rate	~ 150 ml/min	Sample ID	CDFMW-11
Size	2'	Drawdown	not measured	Duplicate ID	
Depth to Water	19.5	Depth of Pump	bottom	Sample Time	14/5
Depth to Bottom	~ 23.5	<u>Purge Product</u> <u>No parameters</u>		Analysis	VdA SVO
Screened Interval		Pumped product into jars			

Stabilization Parameters

Site White engine
Date 4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump ice bladder

WELL		PURGE		SAMPLE	
Well ID	CDF MW-12	Purge Rate	200 ml/min	Sample ID	CDF mw-12
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	15.08	Depth of Pump	15.08 above bottom	Sample Time	1640
Depth to Bottom	22.10			Analysis	VOA
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1605	1610	1615	1620	1625	1630	1635	1640			
pH	6.74	6.65	6.64	6.64	6.64	6.65	6.68	6.70	6.71			
COND (ms/cm)	1.78	1.69	1.69	1.69	1.69	1.68	1.68	1.69	1.70			
DO (mg/l)	0	0	0	0	0	0	0	0	0			
TEMP	13.10	12.98	12.60	12.60	12.74	12.77	12.81	12.90				
ORP (mv)	70	55	51	49	48	46	44	42				
TURB (ntu)	29	248	198	196	131	109	91	83.7				

Site White Engine
Date 4/22/13

Ground Water Low-Flow Logsheet-Horiba

Pump * Slader

WELL		PURGE		SAMPLE	
Well ID	CDFMW-14	Purge Rate	200 ml/min	Sample ID	CDFMW-14
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	18.55	Depth of Pump	20	Sample Time	1615
Depth to Bottom	22.1			Analysis	V0A
Screened Interval					

Stabilization Parameters

Time ►\Parameter	Initial	1545	1550	1555	1600	1605	1610	1615				
pH	6.62	6.51	6.46	6.46	6.46	6.46	6.46	6.49				
COND (ms/cm)	124	1.23	1.21	1.23	1.23	1.23	1.23	1.23				
DO (mg/l)	1.93	1.16	0.89	0.71	.59	.53	.53	.52				
TEMP	15.24	13.89	13.80	13.57	13.42	13.33	13.36					
ORP (mv)	260	262	261	257	253	249	247					
TURB (ntu)	741	581	418	242	135	74.4	45.6					

Site White Engine
Date 4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump K 616 Diver

WELL		PURGE		SAMPLE	
Well ID	CDF NW-16	Purge Rate	225 ml/min	Sample ID	CDF NW-16
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	19.65	Depth of Pump	107'	Sample Time	1550
Depth to Bottom	112.1			Analysis	VDA
Screened Interval					

Stabilization Parameters

Time ►	Initial	1525	1530	1535	1540	1545	1550				
Parameter	Initial	1525	1530	1535	1540	1545	1550				
pH	6.64	6.55	6.53	6.53	6.54	6.54					
COND (ms/cm)	1.44	1.43	1.43	1.43	1.43	1.43					
DO (mg/l)	1.62	0.89	0.60	0.51	0.42	0.39					
TEMP	16.13	16.10	16.03	16.07	15.97	15.81					
ORP (mv)	-105	-105	-107	-108	-110	-111					
TURB (ntu)	296	753	773	746	692	625					

Site White Engine
Date 4/22/13

Ground Water Low-Flow Logsheet-Horiba

Pump Bladder
ID # 103 C 381

WELL		PURGE		SAMPLE	
Well ID	CD CDF MW-18	Purge Rate	200 ml/s/min	Sample ID	CDF MW-18
Size	2	Drawdown	0	Duplicate ID	—
Depth to Water	18.27	Depth of Pump	2' off Bottom	Sample Time	1500
Depth to Bottom	23.85			Analysis	VOR
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1425	1430	1435	1440	1445	1450	1455				
pH	6.74	6.73	6.75	6.78	6.80	6.81	6.82					
COND (ms/cm)	1.18	1.18	1.19	1.20	1.20	1.20	1.20					
DO (mg/l)	0.0	0	0	0	0	0	0					
TEMP	13.34	13.01	12.82	12.77	12.68	12.57	12.58					
ORP (mv)	-37	-55	-69	-79	-89	-93	-99					
TURB (ntu)	245	10	87.1	91.9	80.6	51.7	36.2					

Ground Water Low-Flow Logsheet-Horiba

Site White Engine
 Date 4/22/13

Pump Bladder
D103C 20'

WELL		PURGE		SAMPLE	
Well ID	CDF MW - 19	Purge Rate	200 mls/min	Sample ID	CDF MW - 19
Size	2"	Drawdown	0	Duplicate ID	—
Depth to Water	17.50'	Depth of Pump	21' off bottom	Sample Time	1350
Depth to Bottom	22.88'			Analysis	VOA
Screened Interval					

Stabilization Parameters

Parameter	Initial	1320	1325	1330	1335	1340	1345	1350	1355	1360	1365	1370
pH	6.57	6.61	6.69	6.74	6.78	6.80	6.83	6.86	6.89	6.92	6.95	7.00
COND (ms/cm)	1.36	1.26	1.34	1.34	1.34	1.34	1.35	1.34	1.34	1.34	1.34	1.34
DO (mg/l)	0	0	0	0	0	0	0	0	0	0	0	0
TEMP	12.87	12.41	12.19	12.11	12.14	12.10	12.40	12.16				
ORP (mv)	-136	-149	-177	-190	-197	-198	-174	-194				
TURB (ntu)		90.9	74.9	74.2	62.8	58.3	35.6			20		

40.4

Site White Engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump KE Bladder

WELL		PURGE		SAMPLE	
Well ID	CDFMW-20	Purge Rate	200 ml	Sample ID	CDFMW-28
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	13.4	Depth of Pump	17	Sample Time	1640
Depth to Bottom	21.3			Analysis	USA
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1615	1620	1625	1630	1635	1640					
pH	6.27	6.24	6.24	6.24	6.24	6.24	6.25					
COND (ms/cm)	1.39	1.39	1.39	1.40	1.40	1.40	1.40					
DO (mg/l)	2.28	1.87	1.61	1.44	1.30	1.17						
TEMP	15.66	15.42	15.41	15.26	15.13	15.14						
ORP (mv)	194	191	188	186	185	184						
TURB (ntu)	405	334	283	206	137	89						

Site White Eng
Date 11/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump ^{DEPA} Bladder

WELL		PURGE		SAMPLE	
Well ID	CDF MW-21	Purge Rate	200 ml/min	Sample ID	CDF MW-21
Size	2"	Drawdown	7	Duplicate ID	CDF MW-21 D
Depth to Water	19.55	Depth of Pump	~20.55	Sample Time	15 15
Depth to Bottom	31.45			Analysis	
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1437	1448	1450	1455	1500	1505	1510			
pH	6.67	6.69	6.68	6.67	6.67	6.68	6.71				
COND (ms/cm)	1.54	1.54	1.53	1.53	1.53	1.53	1.54				
DO (mg/l)	0	0	0	0	0	0	0				
TEMP	15.75	15.40	14.96	14.91	14.61	14.61	14.59				
ORP (mv)	-125	-130	-144	-149	-153	-155	-159				
TURB (ntu)	352	304	255	150	94.9	130	21.6				

Site White Engine
Date 4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump 10 bladder

WELL		PURGE		SAMPLE	
Well ID	CDFMW-22	Purge Rate	225 mL	Sample ID	CDFMW-22
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	18.55	Depth of Pump	29'	Sample Time	1055
Depth to Bottom	31.50			Analysis	VOA/SVOC
Screened Interval					

Stabilization Parameters

Time ►	Initial	1030	1035	10:40	1045	1050	1055					
Parameter	pH	6.71	6.67	6.67	6.69	6.70						
COND (ms/cm)	1.13	1.21	1.22	1.22	1.22							
DO (mg/l)	0.05	0.33	0.22	0.18	0.13							
TEMP	15.61	13.86	13.76	13.52	13.57							
ORP (mv)	-169	-177	-182	-184	-188							
TURB (ntu)	283	73	49	34	17							

Site White Engine
Date 7/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump 6 ladder

WELL		PURGE		SAMPLE	
Well ID	CDFMW-23	Purge Rate	200 ml	Sample ID	CDFMW-23
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	18 - 55	Depth of Pump	~30	Sample Time	1230
Depth to Bottom	31.9			Analysis	VDA
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1200	1205	1210	1215	1220	1225	1230			
pH	6.61	6.56	6.55	6.55	6.55	6.56	6.56	6.57			
COND (ms/cm)	1.49	1.61	1.50	1.50	1.51	1.51	1.61	1.51			
DO (mg/l)	1.82	1.30	3.96	3.82	3.52	0.41	0.23	0.17			
TEMP	15.80	15.23	15.05	14.84	14.85	14.78	14.69	14.70			
ORP (mv)	-144	-146	-149	-152	-154	-156	-157	-158			
TURB (ntu)	144	148	69	19	11	13	6.	26			

Site Wk. 1c Eng 71C
 Date 9/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump IE Bladder

WELL		PURGE		SAMPLE	
Well ID	FW-9	Purge Rate	220	Sample ID	FW-9
Size	2'	Drawdown	0	Duplicate ID	-
Depth to Water	19.16	Depth of Pump	21	Sample Time	1540
Depth to Bottom	23.3			Analysis	VDA
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1505	1515	1520	1525	1530	1535					
pH	6.59	6.56	6.57	6.57	6.57	6.57	6.57					
COND (ms/cm)	1.08	1.07	1.06	1.07	1.07	1.07	1.07					
DO (mg/l)	1.73	1.41	1.26	0.85	0.85	0.84						
TEMP	11.11	10.54	10.4	10.44	10.49	10.50						
ORP (mv)	304	306	302	307	307	307						
TURB (ntu)	932	220	145	136	105	96						

Site White Engine
Date 4/22/13

Ground Water Low-Flow Logsheet-Horiba

Pump ie bladder

WELL		PURGE		SAMPLE	
Well ID	MW-33	Purge Rate	200 ml/min	Sample ID	MW-33
Size	2"	Drawdown	not measured	Duplicate ID	-
Depth to Water	13.32	Depth of Pump	bottom	Sample Time	1825
Depth to Bottom	15.2	Well drew down below pump, purged ~ 3 min + 1 bottom and collected sample. - 1/2 gallon		Analysis	VDA
Screened Interval	10'				

Stabilization Parameters

Parameter	Initial										
pH	6.14										
COND (ms/cm)	123										
DO (mg/l)	0.55										
TEMP	16.21										
ORP (mv)	-36										
TURB (ntu)	557										

No parameters purged

Site White engine
Date 4/23/12

Ground Water Low-Flow Logsheet-Horiba

Pump DEPA bladder

WELL		PURGE		SAMPLE	
Well ID	MW-34	Purge Rate	~200 mg/min	Sample ID	MW-34
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	13.25	Depth of Pump	2' off bottom	Sample Time	1810
Depth to Bottom	19.87			Analysis	Von
Screened Interval	10'				

Stabilization Parameters

Time ▶	Initial	15	30	55	800	1805				
pH	6.87	6.73	6.72	6.72	6.74	6.74				
COND (ms/cm)	1.94	1.89	1.89	1.89	1.89	1.89				
DO (mg/l)	0.36	0	0	0	0	0				
TEMP	13.59	13.40	13.52	13.29	13.17	13.16				
ORP (mv)	101	90	84	80	76	74				
TURB (ntu)	172	160	513	460	448	449	434			

Site White Engine
Date 4/22/13

Ground Water Low-Flow Logsheet-Horiba

Pump ^{VPA} Bladder 103 @ 38

WELL		PURGE		SAMPLE	
Well ID	MW-36	Purge Rate	~180 ml/min	Sample ID	MW-36
Size	2"	Drawdown	0	Duplicate ID	MW-36 D
Depth to Water	15.18	Depth of Pump	"2' above Bottom	Sample Time	1850
Depth to Bottom	20'			Analysis	VOF
Screened Interval	10'				

Stabilization Parameters

Parameter \ Time ▶	Initial	1715	1720	1725	1730	1735	1740	1745	1750			
pH	6.58	6.54	6.55	6.58	6.60	6.63	6.65	6.67				
COND (ms/cm)	0.7	0.7	0.74	0.74	0.76	0.78	0.80	0.82				
DO (mg/l)	0	0	1.35	1.09	0	0	0	0				
TEMP	13.34	12.66	12.57	12.51	12.52	12.55	12.49	12.41				
ORP (mv)	-176	-186	-191	-194	-195	-198	-199	-198				
TURB (ntu)	105	559	496	433	421	369	255	178	157	120		

Site Upper Onondaga
Date 9/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump EPA Bladder

WELL		PURGE		SAMPLE	
Well ID	MW-38	Purge Rate	200 ml/min	Sample ID	MW-38
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	22.7	Depth of Pump	~25	Sample Time	1530
Depth to Bottom	27.9			Analysis	✓OK
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1450	1500	1505	1515	1520					
pH	6.75	6.70	6.70	6.70	6.69	6.69					
COND (ms/cm)	1.36	1.36	1.36	1.37	1.37	1.37					
DO (mg/l)	0	0	0	0	0	0					
TEMP	12.98	12.50	12.41	12.32	12.25	12.22					
ORP (mv)	155	131	121	113	109	105					
TURB (ntu)	4018	517	481	391	364	291	208				

Site White engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump EPA Bladder

WELL		PURGE		SAMPLE	
Well ID	MW-44	Purge Rate	100 ml/min	Sample ID	MW-44
Size	1" (6P)	Drawdown	NA not measured	Duplicate ID	—
Depth to Water	12.96	Depth of Pump	n 1' off bottom	Sample Time	1005
Depth to Bottom	19.29		3/4" teflon bladder pump	Analysis	VAT
Screened Interval	10'				

Stabilization Parameters

Parameter	Time ►	940 Initial	945	950	955	1000						
pH		6.51	6.58	6.63	6.65	6.67						
COND (ms/cm)		1.40	1.38	1.37	1.36	1.36						
DO (mg/l)		6.7	6.5	6.57	6.67	6.66						
TEMP		12.74	12.65	12.63	12.62	12.61						
ORP (mv)		-26	-30	-46	-51	-55						
TURB (ntu)		508	392	138	102	72.3	46.6					

Lub blank on ^{EPA} Bladder Pump (Equipment Blank) - EB1-OEMAA 0930

Site White Engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump EPA Bladder

WELL		PURGE		SAMPLE	
Well ID	MW-5	Purge Rate	200 ml/min	Sample ID	MW-5
Size	2"	Drawdown	0	Duplicate ID	MW-5D
Depth to Water	16.75	Depth of Pump	2' abv bottom	Sample Time	1115
Depth to Bottom	23.67			Analysis	Vortex
Screened Interval	10'				

Stabilization Parameters

Parameter \ Time ▶	Initial	1050	1055	1100	1105	1110					
pH	6.71	6.66	6.65	6.605	6.606	6.67					
COND (ms/cm)	0.66	0.66	0.70	0.72	0.73	0.74					
DO (mg/l)	1.67	0	0	0	0	0					
TEMP	12.81	12.9	12.54	12.56	12.00	12.69					
ORP (mv)	-466	-45	-96	-91	-96	-93					
TURB (ntu)	330	401	327	242	169	109	825				

Ambient vs 10/24/13 1600 collected at White Engine property

White engine

Site MW-6
Date 4/23/13

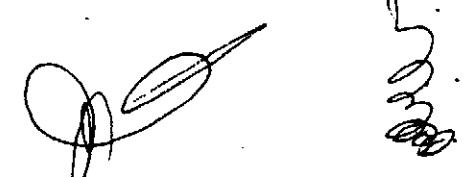
Ground Water Low-Flow Logsheet-Horiba

Pump Wm
Bladder
103

WELL		PURGE		SAMPLE	
Well ID	MW-6	Purge Rate	200 ml/min	Sample ID	MW-6
Size	2"	Drawdown	None	Duplicate ID	-
Depth to Water	19.02	Depth of Pump	~3' off bottom	Sample Time	1000
Depth to Bottom	24.4	Very mucky bottom		Analysis	VUP
Screened Interval		Iron/rusty water			

Stabilization Parameters

Parameter	Time ▶	Initial	810	825	830	835	840	845	850	855	1000
pH		6.46	6.76	6.84	6.88	6.90	6.91	6.92	6.92	6.92	6.91
COND (ms/cm)		0.63	0.56	0.58	0.58	0.59	0.59	0.60	0.61	0.61	0.60
DO (mg/l)		7.01	6.5	6.13	7.64	7.13	4.89	4.10	3.1	3.3	3.14
TEMP		11.25	11.52	11.55	11.59	11.63	11.68	11.73	11.73	11.79	11.79
ORP (mv)		105	109	115	119	122	124	127	128	128	129
TURB (ntu)		793	792	731	490	4660	3460	304	283	199	389



Site White Engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump VEPA Bladder

WELL		PURGE		SAMPLE	
Well ID	MW-13	Purge Rate	200 ml/min	Sample ID	MW-13
Size	2"	Drawdown	0	Duplicate ID	
Depth to Water	14.72'	Depth of Pump	~76'	Sample Time	1535 1735
Depth to Bottom	78.71'	Cement Broken Outer Casing smashed but well OK		Analysis	VFA
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1710	1715	1720	1725	1730	1735				
pH	6.93	6.86	6.85	6.85	6.86	6.86	6.86				
COND (ms/cm)	1.33	1.53	1.54	1.55	1.55	1.55	1.55				
DO (mg/l)	2.59	0	0	0	0	0	0				
TEMP	12.00	12.04	12.09	12.04	12.08	11.96	11.86				
ORP (mv)	-76	-101	-106	-112	-115	-116	-118				
TURB (ntu)	420	409	360	378	259	231	202	163			

Site White Engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump EPA Bladder

WELL		PURGE		SAMPLE	
Well ID	MW-14	Purge Rate	20 ml/ml	Sample ID	MW-14
Size	2"	Drawdown	0	Duplicate ID	-
Depth to Water	22.5'	Depth of Pump	2' 8.5" Btm	Sample Time	1230
Depth to Bottom	28.5'			Analysis	VDA
Screened Interval					

Stabilization Parameters

Time ▶	Initial	12:00	12:15	12:20	12:25							
Parameter												
pH	6.86	6.82	6.82	6.80	6.83							
COND (ms/cm)	1.29	1.27	1.27	1.27	1.27							
DO (mg/l)	0.95	0	0	0	0							
TEMP	13.50	13.71	13.29	13.25	13.24							
ORP (mv)	118	91	82	77	73							
TURB (ntu)	355	250	202	157	125	97						

Site White Engine
Date 24 Apr '13

Ground Water Low-Flow Logsheet-Horiba

Pump Bladder

Dry Well

SAMPLE

WELL		PURGE		SAMPLE	
Well ID		Purge Rate		Sample ID	MW-18
Size		Drawdown		Duplicate ID	
Depth to Water		Depth of Pump		Sample Time	
Depth to Bottom				Analysis	
Screened Interval					

Stabilization Parameters

Site White Engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump NE bladder

WELL		PURGE		SAMPLE	
Well ID	MW-19	Purge Rate	220 ml/min	Sample ID	MW-19
Size	2"	Drawdown	0	Duplicate ID	-
Depth to Water	18.72	Depth of Pump	~22.5	Sample Time	1240
Depth to Bottom	24.5			Analysis	VOA
Screened Interval					

Stabilization Parameters

Time ►	Initial	1200	1205	1210	1215	1220	1225	1230	1235		
pH	6.48	6.45	6.44	6.45	6.45	6.45	6.46	6.46	6.46		
COND (ms/cm)	1.12	1.13	1.14	1.14	1.14	1.14	1.14	1.15	1.14		
DO (mg/l)	1.48	1.58	2.09	2.39	2.53	1.78	3.99	4.93	4.67		
TEMP	13.34	13.12	12.99	12.92	12.92	12.92	12.92	12.95	12.94		
ORP (mv)	256	250	239	223	209	192	181	165	164		
TURB (ntu)	340	307	235	164	93	116	63	79	64		

Site White Engine
Date 4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump EPA Bladder

WELL		PURGE		SAMPLE	
Well ID	MW-22	Purge Rate	20 ml/min	Sample ID	MW-22
Size	2"	Drawdown	0	Duplicate ID	-
Depth to Water	20.55	Depth of Pump	~2' off bottom	Sample Time	0935
Depth to Bottom	27.05			Analysis	V02X
Screened Interval					

Stabilization Parameters

Time ▶	Initial	q05	q10	q15	q20	q25	q30				
Parameter											
pH	6.52	6.40	6.43	6.45	6.47	6.48	6.48				
COND (ms/cm)	1.43	1.43	1.42	1.42	1.41	1.41	1.41				
DO (mg/l)	2.63	0	0	0	0	0	0				
TEMP	10.82	11.32	11.45	11.51	11.53	11.52	11.58				
ORP (mv)	191	167	155	147	143	137	135				
TURB (ntu)	613	310	208	165	170	114	77.3	56.0			

Ground Water Low-Flow Logsheet-Horiba

Site White Engine
 Date 4/25/10

Pump 10' S ladder

WELL		PURGE		SAMPLE	
Well ID	MW-23	Purge Rate	200 mL	Sample ID	MW-23
Size	2"	Drawdown	0	Duplicate ID	-
Depth to Water	22.5	Depth of Pump	24	Sample Time	0930
Depth to Bottom	26.15			Analysis	VOA
Screened Interval					

Stabilization Parameters

Parameter	Time ▶	900 Initial	905	910	915	920	925					
pH		6.31	6.32	6.34	6.36	6.36	6.37					
COND (ms/cm)		1.41	1.42	1.42	1.43	1.43	1.43					
DO (mg/l)		0	0	0	0	0	0					
TEMP		13.67	13.45	12.74	12.53	12.47	12.31					
ORP (mv)		103	16	-18	-34	-37	-47					
TURB (ntu)		759	504	392	281	186	101					

Site White Engine
Date 4/23/13

Ground Water Low-Flow Logsheet-Horiba

Pump 1E Bladder

WELL		PURGE		SAMPLE	
Well ID	MW-35	Purge Rate	240 mL	Sample ID	MW-35
Size	2"	Drawdown	0	Duplicate ID	-
Depth to Water	13.55	Depth of Pump	~17.5	Sample Time	1750
Depth to Bottom	19.75			Analysis	UOA
Screened Interval					

Stabilization Parameters

Parameter \ Time ▶	Initial	1725	1730	1735	1740	1745	1750				
pH	6.65	6.64	6.63	6.63	6.63	6.63	6.64				
COND (ms/cm)	2.51	2.54	2.53	2.53	2.53	2.52	2.53				
DO (mg/l)	1.80	1.14	0.31	0.76	1.74	0.07	1.34				
TEMP	14.93	14.61	14.54	14.49	14.52	14.43	14.44				
ORP (mv)	2.38	230	222	216	210	200	194				
TURB (ntu)	715	520	434	218	139	72	57				

Site White Engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump re bladder

WELL		PURGE		SAMPLE	
Well ID	MW-43	Purge Rate	220 ml/min	Sample ID	MW-43
Size	2 "	Drawdown	20	Duplicate ID	A -
Depth to Water	12.65	Depth of Pump	18'	Sample Time	0945
Depth to Bottom	19.7			Analysis	VOA
Screened Interval					

Stabilization Parameters

Parameter	Initial	915	0920	0925	0930	0935	0940				
pH	9.05	6.30	6.30	6.32	6.33	6.34	6.36	6.36			
COND (ms/cm)	1.11	1.19	1.19	1.26	1.20	1.21	1.21				
DO (mg/l)	1.81	0.46	4.56	4.77	4.74	4.43	4.51				
TEMP	14.56	13.68	13.39	13.18	13.09	13.03	12.99				
ORP (mv)	-120	-130	-138	-141	-144	-146	-147				
TURB (ntu)	374	91	48	34	25	21	15				

EB-2 IE 24-13
EB-2 IE 0950

Site White Engine
Date 4/24/13

Ground Water Low-Flow Logsheet-Horiba

Pump IE bladder

WELL		PURGE		SAMPLE	
Well ID	MW-45	Purge Rate	220 ml	Sample ID	MW-45
Size	2"	Drawdown	0	Duplicate ID	-
Depth to Water	12.65	Depth of Pump	17	Sample Time	1105
Depth to Bottom	18.4			Analysis	VOA
Screened Interval					

Stabilization Parameters

Parameter	Initial	1031	1035	1040	1045	1050	1055	1100				
pH	6.28	6.20	6.19	6.19	6.20	6.21	6.22					
COND (ms/cm)	0.87	0.92	0.934	0.948	0.957	0.969	0.982					
DO (mg/l)	1.34	0.84	0.71	0.60	0.50	0.48	0.41					
TEMP	13.21	12.97	12.91	12.93	12.92	12.88	12.83					
ORP (mv)	175	155	148	140	135	131	127					
TURB (ntu)	960	810	649	401	278	162	95					

Complete Analytical Results And VAP Affidavit

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-23650-1

Client Project/Site: White Engine

For:

Ohio EPA CO

4675 Homer Ohio Lane

Groveport, Ohio 43123

Attn: Ms. Victoria Sigler

Denise Pohl

Authorized for release by:

5/13/2013 12:18:53 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Job ID: 240-23650-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Ohio EPA CO

Project: White Engine

Report Number: 240-23650-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Ohio Voluntary Action Program.

A summary of QC data for these analyses is included at the back of the report.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.7 and 2.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CDFMW-1 (240-23650-1), CDFMW-2 (240-23650-2), CDFMW-19 (240-23650-3), CDFMW-3 (240-23650-4), CDFMW-18 (240-23650-5), CDFMW-4 (240-23650-6), MW-36 (240-23650-7), CDFMW-14 (240-23650-8), MW-36D (240-23650-9), CDFMW-9 (240-23650-10), MW-6 (240-23650-11), MW-29 (240-23650-12), MW-33 (240-23650-13), CDFMW-22 (240-23650-14), CDFMW-10 (240-23650-15), CDFMW-16 (240-23650-16), CDFMW-11 (240-23650-17), CDFMW-23 (240-23650-18), CDFMW-21 (240-23650-19), CDFMW-7 (240-23650-20), CDFMW-21D (240-23650-21), FW-9 (240-23650-22), MW-19 (240-23650-23), MW-45 (240-23650-24), MW-43 (240-23650-25), MW-35 (240-23650-26), CDFMW-20 (240-23650-27), MW-14 (240-23650-28), MW-23 (240-23650-29), MW-22 (240-23650-30), MW-38 (240-23650-31), MW-13 (240-23650-32), MW-34 (240-23650-33), CDFMW-12 (240-23650-34), MW-44 (240-23650-35), MW-5 (240-23650-36), MW-5D (240-23650-37), AMBIENT (240-23650-38), EB1-OEPA (240-23650-39), EB2-IE (240-23650-40) and TRIP BLANK (240-23650-41) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/30/2013, 05/02/2013 and 05/03/2013.

Case Narrative

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Job ID: 240-23650-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Methylene Chloride was detected in method blank MB 240-84108/5 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Carbon disulfide was detected in method blank MB 240-84108/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Sample MW-19 (240-23650-23)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260B: The method blank for batch 84108 contained Methylene chloride above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

SEMOVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CDFMW-22 (240-23650-14), CDFMW-10 (240-23650-15), CDFMW-11 (240-23650-17) and CDFMW-7 (240-23650-20) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/29/2013 and analyzed on 05/02/2013.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

2,4,6-Tribromophenol (Surr) and 2-Fluorophenol (Surr) failed the surrogate recovery criteria low for CDFMW-11 (240-23650-17). Refer to the QC report for details.

Sample CDFMW-11 (240-23650-17)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: CDFMW-11 (240-23650-17). Elevated reporting limits (RLs) are provided.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 83983. 3520C 8270C.

No other difficulties were encountered during the SVOCS analyses.

All other quality control parameters were within the acceptance limits.

Method Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-23650-1	CDFMW-1	Water	04/22/13 13:55	04/25/13 11:00
240-23650-2	CDFMW-2	Water	04/22/13 11:55	04/25/13 11:00
240-23650-3	CDFMW-19	Water	04/22/13 13:50	04/25/13 11:00
240-23650-4	CDFMW-3	Water	04/22/13 16:00	04/25/13 11:00
240-23650-5	CDFMW-18	Water	04/22/13 15:00	04/25/13 11:00
240-23650-6	CDFMW-4	Water	04/22/13 15:05	04/25/13 11:00
240-23650-7	MW-36	Water	04/22/13 18:00	04/25/13 11:00
240-23650-8	CDFMW-14	Water	04/22/13 16:15	04/25/13 11:00
240-23650-9	MW-36D	Water	04/22/13 18:00	04/25/13 11:00
240-23650-10	CDFMW-9	Water	04/22/13 17:20	04/25/13 11:00
240-23650-11	MW-6	Water	04/23/13 10:00	04/25/13 11:00
240-23650-12	MW-29	Water	04/23/13 09:40	04/25/13 11:00
240-23650-13	MW-33	Water	04/22/13 18:25	04/25/13 11:00
240-23650-14	CDFMW-22	Water	04/23/13 10:55	04/25/13 11:00
240-23650-15	CDFMW-10	Water	04/23/13 11:10	04/25/13 11:00
240-23650-16	CDFMW-16	Water	04/23/13 15:50	04/25/13 11:00
240-23650-17	CDFMW-11	Water	04/23/13 14:15	04/25/13 11:00
240-23650-18	CDFMW-23	Water	04/23/13 12:30	04/25/13 11:00
240-23650-19	CDFMW-21	Water	04/23/13 15:15	04/25/13 11:00
240-23650-20	CDFMW-7	Water	04/23/13 12:25	04/25/13 11:00
240-23650-21	CDFMW-21D	Water	04/23/13 15:15	04/25/13 11:00
240-23650-22	FW-9	Water	04/24/13 15:40	04/25/13 11:00
240-23650-23	MW-19	Water	04/24/13 12:40	04/25/13 11:00
240-23650-24	MW-45	Water	04/24/13 11:05	04/25/13 11:00
240-23650-25	MW-43	Water	04/24/13 09:45	04/25/13 11:00
240-23650-26	MW-35	Water	04/23/13 17:50	04/25/13 11:00
240-23650-27	CDFMW-20	Water	04/23/13 16:40	04/25/13 11:00
240-23650-28	MW-14	Water	04/24/13 12:30	04/25/13 11:00
240-23650-29	MW-23	Water	04/25/13 09:30	04/25/13 11:00
240-23650-30	MW-22	Water	04/25/13 09:35	04/25/13 11:00
240-23650-31	MW-38	Water	04/24/13 15:30	04/25/13 11:00
240-23650-32	MW-13	Water	04/24/13 17:35	04/25/13 11:00
240-23650-33	MW-34	Water	04/23/13 18:10	04/25/13 11:00
240-23650-34	CDFMW-12	Water	04/23/13 16:40	04/25/13 11:00
240-23650-35	MW-44	Water	04/24/13 10:05	04/25/13 11:00
240-23650-36	MW-5	Water	04/24/13 11:15	04/25/13 11:00
240-23650-37	MW-5D	Water	04/24/13 11:15	04/25/13 11:00
240-23650-38	AMBIENT	Water	04/24/13 10:00	04/25/13 11:00
240-23650-39	EB1-OEPA	Water	04/24/13 09:30	04/25/13 11:00
240-23650-40	EB2-IE	Water	04/24/13 09:50	04/25/13 11:00
240-23650-41	TRIP BLANK	Water	04/22/13 00:00	04/25/13 11:00

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1

Lab Sample ID: 240-23650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	2.3		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.71	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-2

Lab Sample ID: 240-23650-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.13	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.2		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.45	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.57	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-19

Lab Sample ID: 240-23650-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.53	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.9		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.82	J	1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.64	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-3

Lab Sample ID: 240-23650-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.6		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.60	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	5.9		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-18

Lab Sample ID: 240-23650-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.51	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.5		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.34	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.51	J	1.0	0.22	ug/L	1		8260B	Total/NA
Vinyl chloride	0.32	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-4

Lab Sample ID: 240-23650-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	10	1.1	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.49	J	1.0	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36

Lab Sample ID: 240-23650-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.1	ug/L	1		8260B	Total/NA
Benzene	0.47	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.3		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.5		1.0	0.15	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.37	J	1.0	0.13	ug/L	1		8260B	Total/NA
Trichloroethene	0.32	J	1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.42	J	1.0	0.22	ug/L	1		8260B	Total/NA
Xylenes, Total	0.66	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-14

Lab Sample ID: 240-23650-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.44	J	1.0	0.15	ug/L	1		8260B	Total/NA
Trichloroethene	0.22	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-36D

Lab Sample ID: 240-23650-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	10	1.1	ug/L	1		8260B	Total/NA
Benzene	0.42	J	1.0	0.13	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.4		1.0	0.15	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.34	J	1.0	0.13	ug/L	1		8260B	Total/NA
Trichloroethene	0.37	J	1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.44	J	1.0	0.22	ug/L	1		8260B	Total/NA
Xylenes, Total	0.68	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-9

Lab Sample ID: 240-23650-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	10	1.1	ug/L	1		8260B	Total/NA
Vinyl chloride	0.23	J	1.0	0.22	ug/L	1		8260B	Total/NA
Xylenes, Total	0.67	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 240-23650-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.8		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	2.7		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.21	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	4.0		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	14		1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.67	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-29

Lab Sample ID: 240-23650-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-29 (Continued)

Lab Sample ID: 240-23650-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.86	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.20	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.86	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	8.6		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-33

Lab Sample ID: 240-23650-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	10	1.1	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-22

Lab Sample ID: 240-23650-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.90	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.2		1.0	0.15	ug/L	1		8260B	Total/NA
Vinyl chloride	0.24	J	1.0	0.22	ug/L	1		8260B	Total/NA
Acenaphthene	2.6		0.21	0.10	ug/L	1		8270C	Total/NA
Fluorene	1.2		0.21	0.10	ug/L	1		8270C	Total/NA
Pyrene	0.20	J	0.21	0.10	ug/L	1		8270C	Total/NA

Client Sample ID: CDFMW-10

Lab Sample ID: 240-23650-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.67	J	1.0	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-16

Lab Sample ID: 240-23650-16

No Detections.

Client Sample ID: CDFMW-11

Lab Sample ID: 240-23650-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.4		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.62	J	1.0	0.15	ug/L	1		8260B	Total/NA
Toluene	0.15	J	1.0	0.13	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.4		1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0	0.17	ug/L	1		8260B	Total/NA
Xylenes, Total	0.37	J	2.0	0.28	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-23

Lab Sample ID: 240-23650-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.1		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.95	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-21

Lab Sample ID: 240-23650-19

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21 (Continued)

Lab Sample ID: 240-23650-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.98	J	1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	5.0		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.43	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-7

Lab Sample ID: 240-23650-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	3.3		1.0	0.15	ug/L	1		8260B	Total/NA
Pyrene	0.18	J	0.22	0.11	ug/L	1		8270C	Total/NA

Client Sample ID: CDFMW-21D

Lab Sample ID: 240-23650-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.9		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.37	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.53	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: FW-9

Lab Sample ID: 240-23650-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.27	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.85	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	7.4		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 240-23650-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		2.0	0.34	ug/L	2		8260B	Total/NA
1,1-Dichloroethane	0.86	J	2.0	0.30	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	0.49	J	2.0	0.38	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	0.51	J	2.0	0.38	ug/L	2		8260B	Total/NA
1,1,1-Trichloroethane	5.9		2.0	0.44	ug/L	2		8260B	Total/NA
Trichloroethene	43		2.0	0.34	ug/L	2		8260B	Total/NA

Client Sample ID: MW-45

Lab Sample ID: 240-23650-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.28	J	1.0	0.15	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.29	J	1.0	0.29	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.27	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.70	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	3.5		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-43

Lab Sample ID: 240-23650-25

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43 (Continued)

Lab Sample ID: 240-23650-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.3		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.81	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.51	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.79	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	8.2		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-35

Lab Sample ID: 240-23650-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.58	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	3.9		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	23		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-20

Lab Sample ID: 240-23650-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	10	1.1	ug/L	1		8260B	Total/NA
Tetrachloroethene	12		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.40	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 240-23650-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.65	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	1.3		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	3.2		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-23

Lab Sample ID: 240-23650-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.91	J	1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.33	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	19		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-22

Lab Sample ID: 240-23650-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	2.0		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.21	J	1.0	0.19	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.20	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.0		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	24		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-38

Lab Sample ID: 240-23650-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.2		1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38 (Continued)

Lab Sample ID: 240-23650-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.5		1.0	0.15	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	4.6		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 240-23650-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.40	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-34

Lab Sample ID: 240-23650-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.68	J	1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.20	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.2		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	25		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: CDFMW-12

Lab Sample ID: 240-23650-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.22	J	1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	4.1		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-44

Lab Sample ID: 240-23650-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.0		1.0	0.15	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.73	J	1.0	0.29	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.7		1.0	0.19	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	0.76	J	1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	17		1.0	0.17	ug/L	1		8260B	Total/NA
Vinyl chloride	0.49	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 240-23650-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.9		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.0		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.48	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	3.3		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	4.9		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	20		1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D

Lab Sample ID: 240-23650-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	10	1.1	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	3.6		1.0	0.15	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.46	J	1.0	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene	3.3		1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	4.4		1.0	0.22	ug/L	1		8260B	Total/NA
Trichloroethene	18		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: AMBIENT

Lab Sample ID: 240-23650-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	10	1.1	ug/L	1		8260B	Total/NA

Client Sample ID: EB1-OEPA

Lab Sample ID: 240-23650-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	10	1.1	ug/L	1		8260B	Total/NA

Client Sample ID: EB2-IE

Lab Sample ID: 240-23650-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.28	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-23650-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	10	1.1	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1

Lab Sample ID: 240-23650-1

Date Collected: 04/22/13 13:55

Matrix: Water

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.1	J	10	1.1	ug/L		04/30/13 13:44		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 13:44		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 13:44		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 13:44		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 13:44		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 13:44		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 13:44		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 13:44		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 13:44		1
cis-1,2-Dichloroethene	1.1		1.0	0.17	ug/L		04/30/13 13:44		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 13:44		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 13:44		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 13:44		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 13:44		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 13:44		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 13:44		1
1,1-Dichloroethane	2.3		1.0	0.15	ug/L		04/30/13 13:44		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 13:44		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 13:44		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 13:44		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 13:44		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 13:44		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 13:44		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 13:44		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 13:44		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 13:44		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 13:44		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 13:44		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 13:44		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 13:44		1
trans-1,2-Dichloroethene	1.3		1.0	0.19	ug/L		04/30/13 13:44		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 13:44		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 13:44		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 13:44		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 13:44		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 13:44		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 13:44		1
Vinyl chloride	0.71	J	1.0	0.22	ug/L		04/30/13 13:44		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 13:44		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		04/30/13 13:44	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 13:44	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1
Date Collected: 04/22/13 13:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 129		04/30/13 13:44	1
Toluene-d8 (Surr)	89		74 - 115		04/30/13 13:44	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-2

Lab Sample ID: 240-23650-2

Matrix: Water

Date Collected: 04/22/13 11:55

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 14:06		1
Benzene	0.13	J	1.0	0.13	ug/L		04/30/13 14:06		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 14:06		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 14:06		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 14:06		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 14:06		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:06		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 14:06		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 14:06		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 14:06		1
cis-1,2-Dichloroethene	20		1.0	0.17	ug/L		04/30/13 14:06		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 14:06		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:06		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 14:06		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 14:06		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 14:06		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 14:06		1
1,1-Dichloroethane	1.2		1.0	0.15	ug/L		04/30/13 14:06		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:06		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 14:06		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 14:06		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 14:06		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 14:06		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 14:06		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 14:06		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 14:06		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 14:06		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 14:06		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:06		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 14:06		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 14:06		1
trans-1,2-Dichloroethene	0.45	J	1.0	0.19	ug/L		04/30/13 14:06		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 14:06		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:06		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:06		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 14:06		1
Trichloroethene	1.3		1.0	0.17	ug/L		04/30/13 14:06		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 14:06		1
Vinyl chloride	0.57	J	1.0	0.22	ug/L		04/30/13 14:06		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 14:06		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		66 - 117		04/30/13 14:06	1
Dibromofluoromethane (Surr)	100		75 - 121		04/30/13 14:06	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-2
Date Collected: 04/22/13 11:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 129		04/30/13 14:06	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 14:06	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-19

Lab Sample ID: 240-23650-3

Matrix: Water

Date Collected: 04/22/13 13:50

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.6	J	10	1.1	ug/L		04/30/13 14:28		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 14:28		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 14:28		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 14:28		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 14:28		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:28		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 14:28		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 14:28		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 14:28		1
cis-1,2-Dichloroethene	0.53	J	1.0	0.17	ug/L		04/30/13 14:28		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 14:28		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:28		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 14:28		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 14:28		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 14:28		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 14:28		1
1,1-Dichloroethane	1.9		1.0	0.15	ug/L		04/30/13 14:28		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:28		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 14:28		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 14:28		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 14:28		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 14:28		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 14:28		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 14:28		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 14:28		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 14:28		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 14:28		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:28		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 14:28		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 14:28		1
trans-1,2-Dichloroethene	0.82	J	1.0	0.19	ug/L		04/30/13 14:28		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 14:28		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:28		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:28		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 14:28		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 14:28		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 14:28		1
Vinyl chloride	0.64	J	1.0	0.22	ug/L		04/30/13 14:28		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 14:28		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		66 - 117		04/30/13 14:28	1
Dibromofluoromethane (Surr)	101		75 - 121		04/30/13 14:28	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-19

Lab Sample ID: 240-23650-3

Date Collected: 04/22/13 13:50
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 14:28	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 14:28	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-3

Lab Sample ID: 240-23650-4

Matrix: Water

Date Collected: 04/22/13 16:00

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.6	J	10	1.1	ug/L		04/30/13 14:49		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 14:49		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 14:49		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 14:49		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 14:49		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:49		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 14:49		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 14:49		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 14:49		1
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L		04/30/13 14:49		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 14:49		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:49		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 14:49		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 14:49		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 14:49		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 14:49		1
1,1-Dichloroethane	1.6		1.0	0.15	ug/L		04/30/13 14:49		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:49		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 14:49		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 14:49		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 14:49		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 14:49		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 14:49		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 14:49		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 14:49		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 14:49		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 14:49		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 14:49		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 14:49		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 14:49		1
trans-1,2-Dichloroethene	0.60	J	1.0	0.19	ug/L		04/30/13 14:49		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 14:49		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 14:49		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 14:49		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 14:49		1
Trichloroethene	5.9		1.0	0.17	ug/L		04/30/13 14:49		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 14:49		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 14:49		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 14:49		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 117		04/30/13 14:49	1
Dibromofluoromethane (Surr)	103		75 - 121		04/30/13 14:49	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-3
Date Collected: 04/22/13 16:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 129		04/30/13 14:49	1
Toluene-d8 (Surr)	87		74 - 115		04/30/13 14:49	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-18

Lab Sample ID: 240-23650-5

Matrix: Water

Date Collected: 04/22/13 15:00

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.4	J	10	1.1	ug/L		04/30/13 15:10		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 15:10		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 15:10		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 15:10		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 15:10		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:10		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 15:10		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 15:10		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 15:10		1
cis-1,2-Dichloroethene	0.51	J	1.0	0.17	ug/L		04/30/13 15:10		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 15:10		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:10		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 15:10		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 15:10		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 15:10		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 15:10		1
1,1-Dichloroethane	1.5		1.0	0.15	ug/L		04/30/13 15:10		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:10		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:10		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 15:10		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 15:10		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 15:10		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 15:10		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 15:10		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 15:10		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 15:10		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 15:10		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:10		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 15:10		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 15:10		1
trans-1,2-Dichloroethene	0.34	J	1.0	0.19	ug/L		04/30/13 15:10		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 15:10		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:10		1
1,1,1-Trichloroethane	0.51	J	1.0	0.22	ug/L		04/30/13 15:10		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 15:10		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 15:10		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 15:10		1
Vinyl chloride	0.32	J	1.0	0.22	ug/L		04/30/13 15:10		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 15:10		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		66 - 117		04/30/13 15:10	1
Dibromofluoromethane (Surr)	99		75 - 121		04/30/13 15:10	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-18
Date Collected: 04/22/13 15:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 129	04/30/13 15:10		1
Toluene-d8 (Surr)	89		74 - 115		04/30/13 15:10	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-4

Lab Sample ID: 240-23650-6

Matrix: Water

Date Collected: 04/22/13 15:05

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	2.3	J	10	1.1	ug/L		04/30/13 15:32		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 15:32		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 15:32		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 15:32		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 15:32		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:32		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 15:32		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 15:32		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 15:32		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 15:32		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:32		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 15:32		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 15:32		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 15:32		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 15:32		1
1,1-Dichloroethane	0.49	J	1.0	0.15	ug/L		04/30/13 15:32		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:32		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:32		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		04/30/13 15:32		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 15:32		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 15:32		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 15:32		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 15:32		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 15:32		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:32		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 15:32		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 15:32		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:32		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 15:32		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:32		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:32		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 15:32		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 15:32		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 15:32		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 15:32		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 15:32		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		66 - 117		04/30/13 15:32	1
Dibromofluoromethane (Surr)	97		75 - 121		04/30/13 15:32	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-4
Date Collected: 04/22/13 15:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		04/30/13 15:32	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 15:32	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36

Lab Sample ID: 240-23650-7

Date Collected: 04/22/13 18:00

Matrix: Water

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.8	J	10	1.1	ug/L		04/30/13 15:54		1
Benzene	0.47	J	1.0	0.13	ug/L		04/30/13 15:54		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 15:54		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 15:54		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 15:54		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 15:54		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:54		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 15:54		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 15:54		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 15:54		1
cis-1,2-Dichloroethene	2.3		1.0	0.17	ug/L		04/30/13 15:54		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 15:54		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:54		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 15:54		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 15:54		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 15:54		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 15:54		1
1,1-Dichloroethane	1.5		1.0	0.15	ug/L		04/30/13 15:54		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:54		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:54		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 15:54		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 15:54		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 15:54		1
Isopropylbenzene	0.37	J	1.0	0.13	ug/L		04/30/13 15:54		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 15:54		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 15:54		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 15:54		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 15:54		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 15:54		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 15:54		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 15:54		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 15:54		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 15:54		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 15:54		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 15:54		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 15:54		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 15:54		1
Trichloroethene	0.32	J	1.0	0.17	ug/L		04/30/13 15:54		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 15:54		1
Vinyl chloride	0.42	J	1.0	0.22	ug/L		04/30/13 15:54		1
Xylenes, Total	0.66	J	2.0	0.28	ug/L		04/30/13 15:54		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		66 - 117		04/30/13 15:54	1
Dibromofluoromethane (Surr)	109		75 - 121		04/30/13 15:54	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36
Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 129		04/30/13 15:54	1
Toluene-d8 (Surr)	84		74 - 115		04/30/13 15:54	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-14

Lab Sample ID: 240-23650-8

Matrix: Water

Date Collected: 04/22/13 16:15

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 16:16		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:16		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 16:16		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 16:16		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 16:16		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:16		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 16:16		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 16:16		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 16:16		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 16:16		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 16:16		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:16		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 16:16		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 16:16		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 16:16		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 16:16		1
1,1-Dichloroethane	0.44	J	1.0	0.15	ug/L		04/30/13 16:16		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:16		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:16		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 16:16		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 16:16		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 16:16		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 16:16		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 16:16		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 16:16		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 16:16		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 16:16		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:16		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 16:16		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 16:16		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:16		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 16:16		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:16		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:16		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 16:16		1
Trichloroethene	0.22	J	1.0	0.17	ug/L		04/30/13 16:16		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 16:16		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 16:16		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 16:16		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 16:16	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 16:16	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-14
Date Collected: 04/22/13 16:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 129		04/30/13 16:16	1
Toluene-d8 (Surr)	90		74 - 115		04/30/13 16:16	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36D

Date Collected: 04/22/13 18:00

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.8	J	10	1.1	ug/L		04/30/13 16:37		1
Benzene	0.42	J	1.0	0.13	ug/L		04/30/13 16:37		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:37		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 16:37		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 16:37		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 16:37		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:37		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 16:37		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 16:37		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 16:37		1
cis-1,2-Dichloroethene	2.1		1.0	0.17	ug/L		04/30/13 16:37		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 16:37		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:37		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 16:37		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 16:37		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 16:37		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 16:37		1
1,1-Dichloroethane	1.4		1.0	0.15	ug/L		04/30/13 16:37		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:37		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:37		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 16:37		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 16:37		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 16:37		1
Isopropylbenzene	0.34	J	1.0	0.13	ug/L		04/30/13 16:37		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 16:37		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 16:37		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 16:37		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 16:37		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 16:37		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:37		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 16:37		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 16:37		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:37		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 16:37		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:37		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:37		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 16:37		1
Trichloroethene	0.37	J	1.0	0.17	ug/L		04/30/13 16:37		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 16:37		1
Vinyl chloride	0.44	J	1.0	0.22	ug/L		04/30/13 16:37		1
Xylenes, Total	0.68	J	2.0	0.28	ug/L		04/30/13 16:37		1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86			66 - 117			04/30/13 16:37		1
Dibromofluoromethane (Surr)	102			75 - 121			04/30/13 16:37		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36D
Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 16:37	1
Toluene-d8 (Surr)	84		74 - 115		04/30/13 16:37	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-9

Date Collected: 04/22/13 17:20

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.4	J	10	1.1	ug/L		04/30/13 16:58		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 16:58		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 16:58		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 16:58		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 16:58		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 16:58		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 16:58		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 16:58		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:58		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 16:58		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 16:58		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 16:58		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 16:58		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:58		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:58		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 16:58		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 16:58		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 16:58		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 16:58		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 16:58		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 16:58		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 16:58		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 16:58		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 16:58		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 16:58		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 16:58		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 16:58		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 16:58		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 16:58		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 16:58		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 16:58		1
Vinyl chloride	0.23	J	1.0	0.22	ug/L		04/30/13 16:58		1
Xylenes, Total	0.67	J	2.0	0.28	ug/L		04/30/13 16:58		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		66 - 117		04/30/13 16:58	1
Dibromofluoromethane (Surr)	100		75 - 121		04/30/13 16:58	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-9
Date Collected: 04/22/13 17:20
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 129		04/30/13 16:58	1
Toluene-d8 (Surr)	91		74 - 115		04/30/13 16:58	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-6

Date Collected: 04/23/13 10:00

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.1	J	10	1.1	ug/L		04/30/13 17:20		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 17:20		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 17:20		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 17:20		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 17:20		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:20		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 17:20		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 17:20		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 17:20		1
cis-1,2-Dichloroethene	1.8		1.0	0.17	ug/L		04/30/13 17:20		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 17:20		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:20		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 17:20		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 17:20		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 17:20		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 17:20		1
1,1-Dichloroethane	2.7		1.0	0.15	ug/L		04/30/13 17:20		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 17:20		1
1,1-Dichloroethene	0.21	J	1.0	0.19	ug/L		04/30/13 17:20		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 17:20		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 17:20		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 17:20		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 17:20		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 17:20		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 17:20		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 17:20		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 17:20		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:20		1
Tetrachloroethene	4.0		1.0	0.29	ug/L		04/30/13 17:20		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 17:20		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 17:20		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 17:20		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:20		1
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L		04/30/13 17:20		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 17:20		1
Trichloroethene	14		1.0	0.17	ug/L		04/30/13 17:20		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 17:20		1
Vinyl chloride	0.67	J	1.0	0.22	ug/L		04/30/13 17:20		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 17:20		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 17:20	1
Dibromofluoromethane (Surr)	105		75 - 121		04/30/13 17:20	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-6
Date Collected: 04/23/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129	04/30/13 17:20		1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 17:20	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-29

Date Collected: 04/23/13 09:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 17:42		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 17:42		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 17:42		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 17:42		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 17:42		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:42		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 17:42		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 17:42		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 17:42		1
cis-1,2-Dichloroethene	11		1.0	0.17	ug/L		04/30/13 17:42		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 17:42		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:42		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 17:42		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 17:42		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 17:42		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 17:42		1
1,1-Dichloroethane	0.86 J		1.0	0.15	ug/L		04/30/13 17:42		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 17:42		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 17:42		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 17:42		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 17:42		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 17:42		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 17:42		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 17:42		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 17:42		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 17:42		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 17:42		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 17:42		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 17:42		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 17:42		1
trans-1,2-Dichloroethene	0.20 J		1.0	0.19	ug/L		04/30/13 17:42		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 17:42		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 17:42		1
1,1,1-Trichloroethane	0.86 J		1.0	0.22	ug/L		04/30/13 17:42		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 17:42		1
Trichloroethene	8.6		1.0	0.17	ug/L		04/30/13 17:42		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 17:42		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 17:42		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 17:42		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 17:42	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 17:42	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-29
Date Collected: 04/23/13 09:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 17:42	1
Toluene-d8 (Surr)	88		74 - 115		04/30/13 17:42	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-33

Date Collected: 04/22/13 18:25

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.4	J	10	1.1	ug/L		04/30/13 18:04		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 18:04		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 18:04		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 18:04		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 18:04		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 18:04		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 18:04		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 18:04		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:04		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 18:04		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 18:04		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 18:04		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 18:04		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:04		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:04		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 18:04		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 18:04		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 18:04		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 18:04		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 18:04		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 18:04		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:04		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 18:04		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 18:04		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:04		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 18:04		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:04		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:04		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 18:04		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:04		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 18:04		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 18:04		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 18:04		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 18:04	1
Dibromofluoromethane (Surr)	100		75 - 121		04/30/13 18:04	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-33
Date Collected: 04/22/13 18:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 129		04/30/13 18:04	1
Toluene-d8 (Surr)	87		74 - 115		04/30/13 18:04	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-22

Date Collected: 04/23/13 10:55

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 18:26		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:26		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 18:26		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 18:26		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 18:26		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:26		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 18:26		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 18:26		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 18:26		1
cis-1,2-Dichloroethene	0.90	J	1.0	0.17	ug/L		04/30/13 18:26		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 18:26		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:26		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 18:26		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 18:26		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 18:26		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 18:26		1
1,1-Dichloroethane	1.2		1.0	0.15	ug/L		04/30/13 18:26		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:26		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:26		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 18:26		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 18:26		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 18:26		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 18:26		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 18:26		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 18:26		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 18:26		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 18:26		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:26		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 18:26		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 18:26		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:26		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 18:26		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:26		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:26		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 18:26		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:26		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 18:26		1
Vinyl chloride	0.24	J	1.0	0.22	ug/L		04/30/13 18:26		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 18:26		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		66 - 117				04/30/13 18:26		1
Dibromofluoromethane (Surr)	101		75 - 121				04/30/13 18:26		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-22

Lab Sample ID: 240-23650-14

Date Collected: 04/23/13 10:55
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		63 - 129		04/30/13 18:26	1
Toluene-d8 (Surr)	87		74 - 115		04/30/13 18:26	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.6		0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Acenaphthylene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Anthracene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[a]anthracene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[a]pyrene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[b]fluoranthene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Benzo[k]fluoranthene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Chrysene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Fluoranthene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Fluorene	1.2		0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
2-Methylnaphthalene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Naphthalene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Phenanthrene	0.21	U	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1
Pyrene	0.20	J	0.21	0.10	ug/L		04/29/13 11:39	05/02/13 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		20 - 110		04/29/13 11:39	05/02/13 16:28
2-Fluorophenol (Surr)	54		10 - 110		04/29/13 11:39	05/02/13 16:28
Nitrobenzene-d5 (Surr)	54		21 - 110		04/29/13 11:39	05/02/13 16:28
Phenol-d5 (Surr)	56		21 - 110		04/29/13 11:39	05/02/13 16:28
Terphenyl-d14 (Surr)	41		24 - 110		04/29/13 11:39	05/02/13 16:28
2,4,6-Tribromophenol (Surr)	65		21 - 110		04/29/13 11:39	05/02/13 16:28

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-10

Date Collected: 04/23/13 11:10

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 18:47		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 18:47		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 18:47		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 18:47		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 18:47		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:47		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 18:47		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 18:47		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 18:47		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 18:47		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:47		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 18:47		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 18:47		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 18:47		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 18:47		1
1,1-Dichloroethane	0.67	J	1.0	0.15	ug/L		04/30/13 18:47		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:47		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:47		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		04/30/13 18:47		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 18:47		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 18:47		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 18:47		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 18:47		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 18:47		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 18:47		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 18:47		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 18:47		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 18:47		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 18:47		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 18:47		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 18:47		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 18:47		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 18:47		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 18:47		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 18:47		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 18:47		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		66 - 117		04/30/13 18:47	1
Dibromofluoromethane (Surr)	97		75 - 121		04/30/13 18:47	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-10
Date Collected: 04/23/13 11:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 129		04/30/13 18:47	1
Toluene-d8 (Surr)	91		74 - 115		04/30/13 18:47	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Acenaphthylene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Anthracene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[a]anthracene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[a]pyrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[b]fluoranthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[g,h,i]perylene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Benzo[k]fluoranthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Chrysene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Dibenz(a,h)anthracene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Fluoranthene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Fluorene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Indeno[1,2,3-cd]pyrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
2-Methylnaphthalene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Naphthalene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Phenanthrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1
Pyrene	0.24	U	0.24	0.12	ug/L		04/29/13 11:39	05/02/13 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		20 - 110		04/29/13 11:39	05/02/13 16:50
2-Fluorophenol (Surr)	49		10 - 110		04/29/13 11:39	05/02/13 16:50
Nitrobenzene-d5 (Surr)	50		21 - 110		04/29/13 11:39	05/02/13 16:50
Phenol-d5 (Surr)	51		21 - 110		04/29/13 11:39	05/02/13 16:50
Terphenyl-d14 (Surr)	37		24 - 110		04/29/13 11:39	05/02/13 16:50
2,4,6-Tribromophenol (Surr)	61		21 - 110		04/29/13 11:39	05/02/13 16:50

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-16

Date Collected: 04/23/13 15:50

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		04/30/13 19:08		1
Benzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
Bromoform	1.0	U	1.0	0.64	ug/L		04/30/13 19:08		1
Bromomethane	1.0	U	1.0	0.41	ug/L		04/30/13 19:08		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		04/30/13 19:08		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
Chloroethane	1.0	U	1.0	0.29	ug/L		04/30/13 19:08		1
Chloroform	1.0	U	1.0	0.16	ug/L		04/30/13 19:08		1
Chloromethane	1.0	U	1.0	0.30	ug/L		04/30/13 19:08		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		04/30/13 19:08		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		04/30/13 19:08		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		04/30/13 19:08		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		04/30/13 19:08		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		04/30/13 19:08		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		04/30/13 19:08		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 19:08		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 19:08		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		04/30/13 19:08		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
2-Hexanone	10	U	10	0.41	ug/L		04/30/13 19:08		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		04/30/13 19:08		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		04/30/13 19:08		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
n-Hexane	1.0	U	1.0	0.26	ug/L		04/30/13 19:08		1
Styrene	1.0	U	1.0	0.11	ug/L		04/30/13 19:08		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		04/30/13 19:08		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		04/30/13 19:08		1
Toluene	1.0	U	1.0	0.13	ug/L		04/30/13 19:08		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		04/30/13 19:08		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		04/30/13 19:08		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		04/30/13 19:08		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		04/30/13 19:08		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		04/30/13 19:08		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		04/30/13 19:08		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		04/30/13 19:08		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		04/30/13 19:08		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		04/30/13 19:08		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		04/30/13 19:08	1
Dibromofluoromethane (Surr)	98		75 - 121		04/30/13 19:08	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-16
Date Collected: 04/23/13 15:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 129		04/30/13 19:08	1
Toluene-d8 (Surr)	90		74 - 115		04/30/13 19:08	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-11

Date Collected: 04/23/13 14:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.2	J	10	1.1	ug/L			05/02/13 12:09	1
Benzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/02/13 12:09	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/02/13 12:09	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/02/13 12:09	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/02/13 12:09	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 12:09	1
Chloroethane	1.0	U	1.0	0.29	ug/L			05/02/13 12:09	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/02/13 12:09	1
Chloromethane	1.0	U	1.0	0.30	ug/L			05/02/13 12:09	1
cis-1,2-Dichloroethene	2.4		1.0	0.17	ug/L			05/02/13 12:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			05/02/13 12:09	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			05/02/13 12:09	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			05/02/13 12:09	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			05/02/13 12:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			05/02/13 12:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			05/02/13 12:09	1
1,1-Dichloroethane	0.62	J	1.0	0.15	ug/L			05/02/13 12:09	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 12:09	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/02/13 12:09	1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L			05/02/13 12:09	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			05/02/13 12:09	1
2-Hexanone	10	U	10	0.41	ug/L			05/02/13 12:09	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			05/02/13 12:09	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/02/13 12:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			05/02/13 12:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			05/02/13 12:09	1
n-Hexane	1.0	U	1.0	0.26	ug/L			05/02/13 12:09	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/13 12:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/13 12:09	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/02/13 12:09	1
Toluene	0.15	J	1.0	0.13	ug/L			05/02/13 12:09	1
trans-1,2-Dichloroethene	1.4		1.0	0.19	ug/L			05/02/13 12:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			05/02/13 12:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 12:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 12:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			05/02/13 12:09	1
Trichloroethene	1.2		1.0	0.17	ug/L			05/02/13 12:09	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			05/02/13 12:09	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/02/13 12:09	1
Xylenes, Total	0.37	J	2.0	0.28	ug/L			05/02/13 12:09	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86			66 - 117				05/02/13 12:09	1
Dibromofluoromethane (Surr)	87			75 - 121				05/02/13 12:09	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-11
Date Collected: 04/23/13 14:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		63 - 129		05/02/13 12:09	1
Toluene-d8 (Surr)	87		74 - 115		05/02/13 12:09	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Acenaphthylene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Anthracene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[a]anthracene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[a]pyrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[b]fluoranthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[g,h,i]perylene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Benzo[k]fluoranthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Chrysene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Dibenz(a,h)anthracene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Fluoranthene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Fluorene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Indeno[1,2,3-cd]pyrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
2-Methylnaphthalene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Naphthalene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Phenanthrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50
Pyrene	10	U	10	5.2	ug/L		04/29/13 11:39	05/02/13 17:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	56		20 - 110		04/29/13 11:39	05/02/13 17:34
2-Fluorophenol (Surr)	0	X	10 - 110		04/29/13 11:39	05/02/13 17:34
Nitrobenzene-d5 (Surr)	50		21 - 110		04/29/13 11:39	05/02/13 17:34
Phenol-d5 (Surr)	55		21 - 110		04/29/13 11:39	05/02/13 17:34
Terphenyl-d14 (Surr)	46		24 - 110		04/29/13 11:39	05/02/13 17:34
2,4,6-Tribromophenol (Surr)	0	X	21 - 110		04/29/13 11:39	05/02/13 17:34

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-23

Date Collected: 04/23/13 12:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-18

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 12:32		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:32		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 12:32		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 12:32		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 12:32		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 12:32		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 12:32		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 12:32		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 12:32		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 12:32		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 12:32		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 12:32		1
cis-1,2-Dichloroethene	17		1.0	0.17	ug/L		05/02/13 12:32		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 12:32		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 12:32		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 12:32		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 12:32		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:32		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 12:32		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:32		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 12:32		1
1,1-Dichloroethane	1.1		1.0	0.15	ug/L		05/02/13 12:32		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 12:32		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 12:32		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 12:32		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 12:32		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 12:32		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:32		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 12:32		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 12:32		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 12:32		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 12:32		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 12:32		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 12:32		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 12:32		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 12:32		1
trans-1,2-Dichloroethene	2.4		1.0	0.19	ug/L		05/02/13 12:32		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 12:32		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 12:32		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 12:32		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 12:32		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 12:32		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 12:32		1
Vinyl chloride	0.95 J		1.0	0.22	ug/L		05/02/13 12:32		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 12:32		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		66 - 117		05/02/13 12:32	1
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 12:32	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-23
Date Collected: 04/23/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		63 - 129		05/02/13 12:32	1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 12:32	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21

Date Collected: 04/23/13 15:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-19

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 12:55		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 12:55		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 12:55		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 12:55		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 12:55		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 12:55		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 12:55		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 12:55		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 12:55		1
cis-1,2-Dichloroethene	0.98	J	1.0	0.17	ug/L		05/02/13 12:55		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 12:55		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 12:55		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 12:55		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 12:55		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 12:55		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 12:55		1
1,1-Dichloroethane	5.0		1.0	0.15	ug/L		05/02/13 12:55		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 12:55		1
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L		05/02/13 12:55		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 12:55		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 12:55		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 12:55		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 12:55		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 12:55		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 12:55		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 12:55		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 12:55		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 12:55		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 12:55		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 12:55		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 12:55		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 12:55		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 12:55		1
1,1,1-Trichloroethane	0.43	J	1.0	0.22	ug/L		05/02/13 12:55		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 12:55		1
Trichloroethene	1.3		1.0	0.17	ug/L		05/02/13 12:55		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 12:55		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 12:55		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 12:55		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		66 - 117		05/02/13 12:55	1
Dibromofluoromethane (Surr)	93		75 - 121		05/02/13 12:55	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21

Lab Sample ID: 240-23650-19

Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129		05/02/13 12:55	1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 12:55	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-7

Date Collected: 04/23/13 12:25

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 13:40		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 13:40		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 13:40		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 13:40		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 13:40		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 13:40		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 13:40		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 13:40		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 13:40		1
cis-1,2-Dichloroethene	3.4		1.0	0.17	ug/L		05/02/13 13:40		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 13:40		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 13:40		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 13:40		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 13:40		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 13:40		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 13:40		1
1,1-Dichloroethane	3.3		1.0	0.15	ug/L		05/02/13 13:40		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 13:40		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 13:40		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 13:40		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 13:40		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 13:40		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 13:40		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 13:40		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 13:40		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 13:40		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 13:40		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 13:40		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 13:40		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 13:40		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 13:40		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 13:40		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 13:40		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 13:40		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 13:40		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 13:40		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 13:40		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 13:40		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 13:40		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		66 - 117		05/02/13 13:40	1
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 13:40	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-7
Date Collected: 04/23/13 12:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/02/13 13:40	1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 13:40	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Acenaphthylene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Anthracene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[a]anthracene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[a]pyrene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[b]fluoranthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Benzo[k]fluoranthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Chrysene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Fluoranthene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Fluorene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
2-Methylnaphthalene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Naphthalene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Phenanthrene	0.22	U	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1
Pyrene	0.18	J	0.22	0.11	ug/L		04/29/13 11:39	05/02/13 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	49		20 - 110		05/02/13 17:12	1
2-Fluorophenol (Surr)	54		10 - 110		05/02/13 17:12	1
Nitrobenzene-d5 (Surr)	51		21 - 110		05/02/13 17:12	1
Phenol-d5 (Surr)	57		21 - 110		05/02/13 17:12	1
Terphenyl-d14 (Surr)	41		24 - 110		05/02/13 17:12	1
2,4,6-Tribromophenol (Surr)	66		21 - 110		05/02/13 17:12	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21D

Date Collected: 04/23/13 15:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-21

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 14:03		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 14:03		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 14:03		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 14:03		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 14:03		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:03		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 14:03		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 14:03		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 14:03		1
cis-1,2-Dichloroethene	1.0		1.0	0.17	ug/L		05/02/13 14:03		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 14:03		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:03		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 14:03		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 14:03		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 14:03		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 14:03		1
1,1-Dichloroethane	4.9		1.0	0.15	ug/L		05/02/13 14:03		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 14:03		1
1,1-Dichloroethene	0.37 J		1.0	0.19	ug/L		05/02/13 14:03		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 14:03		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 14:03		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 14:03		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 14:03		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 14:03		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 14:03		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 14:03		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 14:03		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:03		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 14:03		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 14:03		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 14:03		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 14:03		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:03		1
1,1,1-Trichloroethane	0.53 J		1.0	0.22	ug/L		05/02/13 14:03		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 14:03		1
Trichloroethene	1.3		1.0	0.17	ug/L		05/02/13 14:03		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 14:03		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 14:03		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 14:03		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		66 - 117		05/02/13 14:03	1
Dibromofluoromethane (Surr)	92		75 - 121		05/02/13 14:03	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21D
Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129	05/02/13 14:03	05/02/13 14:03	1
Toluene-d8 (Surr)	89		74 - 115			

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: FW-9

Date Collected: 04/24/13 15:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-22

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 14:25		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 14:25		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 14:25		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 14:25		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 14:25		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:25		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 14:25		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 14:25		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 14:25		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 14:25		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 14:25		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:25		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 14:25		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 14:25		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 14:25		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 14:25		1
1,1-Dichloroethane	0.27	J	1.0	0.15	ug/L		05/02/13 14:25		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 14:25		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 14:25		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		05/02/13 14:25		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 14:25		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 14:25		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 14:25		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 14:25		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 14:25		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 14:25		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 14:25		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 14:25		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 14:25		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 14:25		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 14:25		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 14:25		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 14:25		1
1,1,1-Trichloroethane	0.85	J	1.0	0.22	ug/L		05/02/13 14:25		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 14:25		1
Trichloroethene	7.4		1.0	0.17	ug/L		05/02/13 14:25		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 14:25		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 14:25		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 14:25		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		66 - 117				05/02/13 14:25		1
Dibromofluoromethane (Surr)	94		75 - 121				05/02/13 14:25		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: FW-9

Lab Sample ID: 240-23650-22

Date Collected: 04/24/13 15:40
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		63 - 129		05/02/13 14:25	1
Toluene-d8 (Surr)	91		74 - 115		05/02/13 14:25	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-19

Date Collected: 04/24/13 12:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-23

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20	2.2	ug/L		05/02/13 14:48		2
Benzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Bromodichloromethane	2.0	U	2.0	0.30	ug/L		05/02/13 14:48		2
Bromoform	2.0	U	2.0	1.3	ug/L		05/02/13 14:48		2
Bromomethane	2.0	U	2.0	0.82	ug/L		05/02/13 14:48		2
2-Butanone (MEK)	20	U	20	1.1	ug/L		05/02/13 14:48		2
Carbon disulfide	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Carbon tetrachloride	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Chlorobenzene	2.0	U	2.0	0.30	ug/L		05/02/13 14:48		2
Chloroethane	2.0	U	2.0	0.58	ug/L		05/02/13 14:48		2
Chloroform	2.0	U	2.0	0.32	ug/L		05/02/13 14:48		2
Chloromethane	2.0	U	2.0	0.60	ug/L		05/02/13 14:48		2
cis-1,2-Dichloroethene	3.6		2.0	0.34	ug/L		05/02/13 14:48		2
cis-1,3-Dichloropropene	2.0	U	2.0	0.28	ug/L		05/02/13 14:48		2
Dibromochloromethane	2.0	U	2.0	0.36	ug/L		05/02/13 14:48		2
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.3	ug/L		05/02/13 14:48		2
1,2-Dibromoethane	2.0	U	2.0	0.48	ug/L		05/02/13 14:48		2
1,2-Dichlorobenzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
1,3-Dichlorobenzene	2.0	U	2.0	0.28	ug/L		05/02/13 14:48		2
1,4-Dichlorobenzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Dichlorodifluoromethane	2.0	U	2.0	0.62	ug/L		05/02/13 14:48		2
1,1-Dichloroethane	0.86 J		2.0	0.30	ug/L		05/02/13 14:48		2
1,2-Dichloroethane	2.0	U	2.0	0.44	ug/L		05/02/13 14:48		2
1,1-Dichloroethene	0.49 J		2.0	0.38	ug/L		05/02/13 14:48		2
1,2-Dichloropropene	2.0	U	2.0	0.36	ug/L		05/02/13 14:48		2
Ethylbenzene	2.0	U	2.0	0.34	ug/L		05/02/13 14:48		2
2-Hexanone	20	U	20	0.82	ug/L		05/02/13 14:48		2
Isopropylbenzene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
Methylene Chloride	2.0	U	2.0	0.66	ug/L		05/02/13 14:48		2
4-Methyl-2-pentanone (MIBK)	20	U	20	0.64	ug/L		05/02/13 14:48		2
Methyl tert-butyl ether	2.0	U	2.0	0.34	ug/L		05/02/13 14:48		2
n-Hexane	2.0	U	2.0	0.52	ug/L		05/02/13 14:48		2
Styrene	2.0	U	2.0	0.22	ug/L		05/02/13 14:48		2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.36	ug/L		05/02/13 14:48		2
Tetrachloroethene	2.0	U	2.0	0.58	ug/L		05/02/13 14:48		2
Toluene	2.0	U	2.0	0.26	ug/L		05/02/13 14:48		2
trans-1,2-Dichloroethene	0.51 J		2.0	0.38	ug/L		05/02/13 14:48		2
trans-1,3-Dichloropropene	2.0	U	2.0	0.38	ug/L		05/02/13 14:48		2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.30	ug/L		05/02/13 14:48		2
1,1,1-Trichloroethane	5.9		2.0	0.44	ug/L		05/02/13 14:48		2
1,1,2-Trichloroethane	2.0	U	2.0	0.54	ug/L		05/02/13 14:48		2
Trichloroethene	43		2.0	0.34	ug/L		05/02/13 14:48		2
Trichlorofluoromethane	2.0	U	2.0	0.42	ug/L		05/02/13 14:48		2
Vinyl chloride	2.0	U	2.0	0.44	ug/L		05/02/13 14:48		2
Xylenes, Total	4.0	U	4.0	0.56	ug/L		05/02/13 14:48		2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		66 - 117		05/02/13 14:48	2
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 14:48	2

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-19
Date Collected: 04/24/13 12:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129	05/02/13 14:48		2
Toluene-d8 (Surr)	93		74 - 115		05/02/13 14:48	2

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-45

Date Collected: 04/24/13 11:05

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-24

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 15:11		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:11		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 15:11		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 15:11		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 15:11		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:11		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 15:11		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 15:11		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 15:11		1
cis-1,2-Dichloroethene	2.2		1.0	0.17	ug/L		05/02/13 15:11		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 15:11		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:11		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 15:11		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 15:11		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 15:11		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 15:11		1
1,1-Dichloroethane	0.28 J		1.0	0.15	ug/L		05/02/13 15:11		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 15:11		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:11		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 15:11		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 15:11		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 15:11		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 15:11		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 15:11		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 15:11		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 15:11		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 15:11		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:11		1
Tetrachloroethene	0.29 J		1.0	0.29	ug/L		05/02/13 15:11		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 15:11		1
trans-1,2-Dichloroethene	0.27 J		1.0	0.19	ug/L		05/02/13 15:11		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 15:11		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:11		1
1,1,1-Trichloroethane	0.70 J		1.0	0.22	ug/L		05/02/13 15:11		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 15:11		1
Trichloroethene	3.5		1.0	0.17	ug/L		05/02/13 15:11		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 15:11		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 15:11		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 15:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		66 - 117				05/02/13 15:11		1
Dibromofluoromethane (Surr)	91		75 - 121				05/02/13 15:11		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-45
Date Collected: 04/24/13 11:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-24
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/02/13 15:11	1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 15:11	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43

Date Collected: 04/24/13 09:45

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-25

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 15:33		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:33		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 15:33		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 15:33		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 15:33		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:33		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 15:33		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 15:33		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 15:33		1
cis-1,2-Dichloroethene	8.3		1.0	0.17	ug/L		05/02/13 15:33		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 15:33		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:33		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 15:33		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 15:33		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 15:33		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 15:33		1
1,1-Dichloroethane	0.81 J		1.0	0.15	ug/L		05/02/13 15:33		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 15:33		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:33		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 15:33		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 15:33		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 15:33		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 15:33		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 15:33		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 15:33		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 15:33		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 15:33		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:33		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 15:33		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 15:33		1
trans-1,2-Dichloroethene	0.51 J		1.0	0.19	ug/L		05/02/13 15:33		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 15:33		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:33		1
1,1,1-Trichloroethane	0.79 J		1.0	0.22	ug/L		05/02/13 15:33		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 15:33		1
Trichloroethene	8.2		1.0	0.17	ug/L		05/02/13 15:33		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 15:33		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 15:33		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 15:33		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		66 - 117				05/02/13 15:33		1
Dibromofluoromethane (Surr)	94		75 - 121				05/02/13 15:33		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43
Date Collected: 04/24/13 09:45
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-25
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 15:33	1
Toluene-d8 (Surr)	90		74 - 115		05/02/13 15:33	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-35

Date Collected: 04/23/13 17:50

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-26

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 15:56		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 15:56		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 15:56		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 15:56		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 15:56		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 15:56		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 15:56		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 15:56		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 15:56		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:56		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 15:56		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 15:56		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 15:56		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 15:56		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 15:56		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:56		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 15:56		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 15:56		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 15:56		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 15:56		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 15:56		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 15:56		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 15:56		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 15:56		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 15:56		1
Tetrachloroethene	0.58	J	1.0	0.29	ug/L		05/02/13 15:56		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 15:56		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 15:56		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 15:56		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 15:56		1
1,1,1-Trichloroethane	3.9		1.0	0.22	ug/L		05/02/13 15:56		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 15:56		1
Trichloroethene	23		1.0	0.17	ug/L		05/02/13 15:56		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 15:56		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 15:56		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 15:56		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117		05/02/13 15:56	1
Dibromofluoromethane (Surr)	95		75 - 121		05/02/13 15:56	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-35
Date Collected: 04/23/13 17:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-26
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/02/13 15:56	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 15:56	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-20

Date Collected: 04/23/13 16:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-27

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.5	J	10	1.1	ug/L		05/02/13 16:19		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 16:19		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 16:19		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 16:19		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 16:19		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 16:19		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 16:19		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 16:19		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 16:19		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:19		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 16:19		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 16:19		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 16:19		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 16:19		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 16:19		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:19		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 16:19		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 16:19		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 16:19		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 16:19		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 16:19		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 16:19		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 16:19		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 16:19		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:19		1
Tetrachloroethene	12		1.0	0.29	ug/L		05/02/13 16:19		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 16:19		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:19		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 16:19		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:19		1
1,1,1-Trichloroethane	0.40	J	1.0	0.22	ug/L		05/02/13 16:19		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 16:19		1
Trichloroethene	1.2		1.0	0.17	ug/L		05/02/13 16:19		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 16:19		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 16:19		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 16:19		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		66 - 117		05/02/13 16:19	1
Dibromofluoromethane (Surr)	94		75 - 121		05/02/13 16:19	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-20

Lab Sample ID: 240-23650-27

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129	05/02/13 16:19		1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 16:19	1

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Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-14

Date Collected: 04/24/13 12:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-28

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 16:42		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 16:42		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 16:42		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 16:42		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 16:42		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:42		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 16:42		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 16:42		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 16:42		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 16:42		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 16:42		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:42		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 16:42		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 16:42		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 16:42		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 16:42		1
1,1-Dichloroethane	0.65	J	1.0	0.15	ug/L		05/02/13 16:42		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 16:42		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:42		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		05/02/13 16:42		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 16:42		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 16:42		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 16:42		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 16:42		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 16:42		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 16:42		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 16:42		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 16:42		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 16:42		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 16:42		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 16:42		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 16:42		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 16:42		1
1,1,1-Trichloroethane	1.3		1.0	0.22	ug/L		05/02/13 16:42		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 16:42		1
Trichloroethene	3.2		1.0	0.17	ug/L		05/02/13 16:42		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 16:42		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 16:42		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 16:42		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 117		05/02/13 16:42	1
Dibromofluoromethane (Surr)	92		75 - 121		05/02/13 16:42	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-14
Date Collected: 04/24/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-28
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		63 - 129		05/02/13 16:42	1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 16:42	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-23

Date Collected: 04/25/13 09:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-29

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 17:05		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 17:05		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 17:05		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 17:05		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 17:05		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:05		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 17:05		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 17:05		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 17:05		1
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L		05/02/13 17:05		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 17:05		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:05		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 17:05		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 17:05		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 17:05		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 17:05		1
1,1-Dichloroethane	0.91 J		1.0	0.15	ug/L		05/02/13 17:05		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:05		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 17:05		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 17:05		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 17:05		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 17:05		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 17:05		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 17:05		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 17:05		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 17:05		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 17:05		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:05		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 17:05		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 17:05		1
trans-1,2-Dichloroethene	0.33 J		1.0	0.19	ug/L		05/02/13 17:05		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 17:05		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:05		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:05		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 17:05		1
Trichloroethene	19		1.0	0.17	ug/L		05/02/13 17:05		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 17:05		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 17:05		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 17:05		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		05/02/13 17:05	1
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 17:05	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-23
Date Collected: 04/25/13 09:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-29
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129	05/02/13 17:05	05/02/13 17:05	1
Toluene-d8 (Surr)	87		74 - 115			1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-22

Date Collected: 04/25/13 09:35

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 17:27		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 17:27		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 17:27		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 17:27		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 17:27		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:27		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 17:27		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 17:27		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 17:27		1
cis-1,2-Dichloroethene	2.8		1.0	0.17	ug/L		05/02/13 17:27		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 17:27		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:27		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 17:27		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 17:27		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 17:27		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 17:27		1
1,1-Dichloroethane	2.0		1.0	0.15	ug/L		05/02/13 17:27		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:27		1
1,1-Dichloroethene	0.21 J		1.0	0.19	ug/L		05/02/13 17:27		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 17:27		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 17:27		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 17:27		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 17:27		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 17:27		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 17:27		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 17:27		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 17:27		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:27		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 17:27		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 17:27		1
trans-1,2-Dichloroethene	0.20 J		1.0	0.19	ug/L		05/02/13 17:27		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 17:27		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:27		1
1,1,1-Trichloroethane	2.0		1.0	0.22	ug/L		05/02/13 17:27		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 17:27		1
Trichloroethene	24		1.0	0.17	ug/L		05/02/13 17:27		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 17:27		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 17:27		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 17:27		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		66 - 117				05/02/13 17:27		1
Dibromofluoromethane (Surr)	94		75 - 121				05/02/13 17:27		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-22
Date Collected: 04/25/13 09:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-30
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		63 - 129	05/02/13 17:27		1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 17:27	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38

Date Collected: 04/24/13 15:30

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-31

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 17:50		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 17:50		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 17:50		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 17:50		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 17:50		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:50		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 17:50		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 17:50		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 17:50		1
cis-1,2-Dichloroethene	4.2		1.0	0.17	ug/L		05/02/13 17:50		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 17:50		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:50		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 17:50		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 17:50		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 17:50		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 17:50		1
1,1-Dichloroethane	3.5		1.0	0.15	ug/L		05/02/13 17:50		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:50		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 17:50		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 17:50		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 17:50		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 17:50		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 17:50		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 17:50		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 17:50		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 17:50		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 17:50		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 17:50		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 17:50		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 17:50		1
trans-1,2-Dichloroethene	1.6		1.0	0.19	ug/L		05/02/13 17:50		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 17:50		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 17:50		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 17:50		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 17:50		1
Trichloroethene	4.6		1.0	0.17	ug/L		05/02/13 17:50		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 17:50		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 17:50		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 17:50		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		66 - 117		05/02/13 17:50	1
Dibromofluoromethane (Surr)	90		75 - 121		05/02/13 17:50	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38
Date Collected: 04/24/13 15:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-31
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129	05/02/13 17:50		1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 17:50	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-13

Date Collected: 04/24/13 17:35

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-32

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 18:13		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 18:13		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 18:13		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 18:13		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 18:13		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 18:13		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 18:13		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 18:13		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 18:13		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:13		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 18:13		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 18:13		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 18:13		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 18:13		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:13		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:13		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 18:13		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 18:13		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 18:13		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 18:13		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 18:13		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 18:13		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 18:13		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 18:13		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:13		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 18:13		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 18:13		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:13		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 18:13		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:13		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:13		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 18:13		1
Trichloroethene	0.40	J	1.0	0.17	ug/L		05/02/13 18:13		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 18:13		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 18:13		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 18:13		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 117		05/02/13 18:13	1
Dibromofluoromethane (Surr)	91		75 - 121		05/02/13 18:13	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-13
Date Collected: 04/24/13 17:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-32
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 18:13	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 18:13	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-34

Date Collected: 04/23/13 18:10

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-33

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.1	J	10	1.1	ug/L		05/02/13 18:36		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:36		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 18:36		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 18:36		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 18:36		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:36		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 18:36		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 18:36		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 18:36		1
cis-1,2-Dichloroethene	3.1		1.0	0.17	ug/L		05/02/13 18:36		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 18:36		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:36		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 18:36		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 18:36		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 18:36		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 18:36		1
1,1-Dichloroethane	0.68	J	1.0	0.15	ug/L		05/02/13 18:36		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:36		1
1,1-Dichloroethene	0.20	J	1.0	0.19	ug/L		05/02/13 18:36		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 18:36		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 18:36		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 18:36		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 18:36		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 18:36		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 18:36		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 18:36		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 18:36		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:36		1
Tetrachloroethene	1.3		1.0	0.29	ug/L		05/02/13 18:36		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 18:36		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:36		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 18:36		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:36		1
1,1,1-Trichloroethane	2.2		1.0	0.22	ug/L		05/02/13 18:36		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 18:36		1
Trichloroethene	25		1.0	0.17	ug/L		05/02/13 18:36		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 18:36		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 18:36		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 18:36		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	82		66 - 117				05/02/13 18:36		1
Dibromofluoromethane (Surr)	93		75 - 121				05/02/13 18:36		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-34
Date Collected: 04/23/13 18:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-33
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 18:36	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 18:36	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-12

Date Collected: 04/23/13 16:40

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-34

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 18:58		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 18:58		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 18:58		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 18:58		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 18:58		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:58		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 18:58		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 18:58		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 18:58		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/02/13 18:58		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 18:58		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:58		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 18:58		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 18:58		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 18:58		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 18:58		1
1,1-Dichloroethane	1.3		1.0	0.15	ug/L		05/02/13 18:58		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 18:58		1
1,1-Dichloroethene	0.22 J		1.0	0.19	ug/L		05/02/13 18:58		1
1,2-Dichloropropane	1.0	U	1.0	0.18	ug/L		05/02/13 18:58		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 18:58		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 18:58		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 18:58		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 18:58		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 18:58		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 18:58		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 18:58		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 18:58		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/02/13 18:58		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 18:58		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 18:58		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 18:58		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 18:58		1
1,1,1-Trichloroethane	3.6		1.0	0.22	ug/L		05/02/13 18:58		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 18:58		1
Trichloroethene	4.1		1.0	0.17	ug/L		05/02/13 18:58		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 18:58		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/02/13 18:58		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 18:58		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		66 - 117				05/02/13 18:58		1
Dibromofluoromethane (Surr)	91		75 - 121				05/02/13 18:58		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-12

Lab Sample ID: 240-23650-34

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		63 - 129		05/02/13 18:58	1
Toluene-d8 (Surr)	88		74 - 115		05/02/13 18:58	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-44

Date Collected: 04/24/13 10:05

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-35

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/02/13 19:21		1
Benzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/02/13 19:21		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/02/13 19:21		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/02/13 19:21		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/02/13 19:21		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 19:21		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/02/13 19:21		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/02/13 19:21		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/02/13 19:21		1
cis-1,2-Dichloroethene	10		1.0	0.17	ug/L		05/02/13 19:21		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/02/13 19:21		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/02/13 19:21		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/02/13 19:21		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/02/13 19:21		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/02/13 19:21		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/02/13 19:21		1
1,1-Dichloroethane	1.0		1.0	0.15	ug/L		05/02/13 19:21		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/02/13 19:21		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/02/13 19:21		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/02/13 19:21		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/02/13 19:21		1
2-Hexanone	10	U	10	0.41	ug/L		05/02/13 19:21		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/02/13 19:21		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/02/13 19:21		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/02/13 19:21		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/02/13 19:21		1
Styrene	1.0	U	1.0	0.11	ug/L		05/02/13 19:21		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/02/13 19:21		1
Tetrachloroethene	0.73	J	1.0	0.29	ug/L		05/02/13 19:21		1
Toluene	1.0	U	1.0	0.13	ug/L		05/02/13 19:21		1
trans-1,2-Dichloroethene	1.7		1.0	0.19	ug/L		05/02/13 19:21		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/02/13 19:21		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/02/13 19:21		1
1,1,1-Trichloroethane	0.76	J	1.0	0.22	ug/L		05/02/13 19:21		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/02/13 19:21		1
Trichloroethene	17		1.0	0.17	ug/L		05/02/13 19:21		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/02/13 19:21		1
Vinyl chloride	0.49	J	1.0	0.22	ug/L		05/02/13 19:21		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/02/13 19:21		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	85		66 - 117				05/02/13 19:21		1
Dibromofluoromethane (Surr)	89		75 - 121				05/02/13 19:21		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-44
Date Collected: 04/24/13 10:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-35
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		63 - 129		05/02/13 19:21	1
Toluene-d8 (Surr)	87		74 - 115		05/02/13 19:21	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5

Date Collected: 04/24/13 11:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-36

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.1	J	10	1.1	ug/L		05/03/13 12:24		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 12:24		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 12:24		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 12:24		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 12:24		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:24		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 12:24		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 12:24		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 12:24		1
cis-1,2-Dichloroethene	2.9		1.0	0.17	ug/L		05/03/13 12:24		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 12:24		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:24		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 12:24		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 12:24		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 12:24		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 12:24		1
1,1-Dichloroethane	4.0		1.0	0.15	ug/L		05/03/13 12:24		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 12:24		1
1,1-Dichloroethene	0.48	J	1.0	0.19	ug/L		05/03/13 12:24		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 12:24		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 12:24		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 12:24		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 12:24		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 12:24		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 12:24		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 12:24		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 12:24		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:24		1
Tetrachloroethene	3.3		1.0	0.29	ug/L		05/03/13 12:24		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 12:24		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 12:24		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 12:24		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:24		1
1,1,1-Trichloroethane	4.9		1.0	0.22	ug/L		05/03/13 12:24		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 12:24		1
Trichloroethene	20		1.0	0.17	ug/L		05/03/13 12:24		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 12:24		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 12:24		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 12:24		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		05/03/13 12:24	1
Dibromofluoromethane (Surr)	93		75 - 121		05/03/13 12:24	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5
Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-36
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/03/13 12:24	1
Toluene-d8 (Surr)	89		74 - 115		05/03/13 12:24	1

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TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D

Date Collected: 04/24/13 11:15

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-37

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.3	J	10	1.1	ug/L		05/03/13 12:47		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 12:47		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 12:47		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 12:47		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 12:47		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:47		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 12:47		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 12:47		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 12:47		1
cis-1,2-Dichloroethene	2.5		1.0	0.17	ug/L		05/03/13 12:47		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 12:47		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:47		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 12:47		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 12:47		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 12:47		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 12:47		1
1,1-Dichloroethane	3.6		1.0	0.15	ug/L		05/03/13 12:47		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 12:47		1
1,1-Dichloroethene	0.46	J	1.0	0.19	ug/L		05/03/13 12:47		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 12:47		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 12:47		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 12:47		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 12:47		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 12:47		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 12:47		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 12:47		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 12:47		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 12:47		1
Tetrachloroethene	3.3		1.0	0.29	ug/L		05/03/13 12:47		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 12:47		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 12:47		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 12:47		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 12:47		1
1,1,1-Trichloroethane	4.4		1.0	0.22	ug/L		05/03/13 12:47		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 12:47		1
Trichloroethene	18		1.0	0.17	ug/L		05/03/13 12:47		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 12:47		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 12:47		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 12:47		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		66 - 117				05/03/13 12:47		1
Dibromofluoromethane (Surr)	94		75 - 121				05/03/13 12:47		1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D
Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-37
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129	05/03/13 12:47		1
Toluene-d8 (Surr)	93		74 - 115		05/03/13 12:47	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: AMBIENT

Date Collected: 04/24/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-38

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.2	J	10	1.1	ug/L		05/03/13 13:10		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 13:10		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 13:10		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 13:10		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 13:10		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 13:10		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 13:10		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 13:10		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:10		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 13:10		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 13:10		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 13:10		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 13:10		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:10		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:10		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 13:10		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 13:10		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 13:10		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 13:10		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 13:10		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 13:10		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:10		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/03/13 13:10		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 13:10		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:10		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 13:10		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:10		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:10		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 13:10		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:10		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 13:10		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 13:10		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 13:10		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 117		05/03/13 13:10	1
Dibromofluoromethane (Surr)	94		75 - 121		05/03/13 13:10	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: AMBIENT
Date Collected: 04/24/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-38
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		63 - 129	05/03/13 13:10		1
Toluene-d8 (Surr)	91		74 - 115		05/03/13 13:10	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB1-OEPA

Lab Sample ID: 240-23650-39

Matrix: Water

Date Collected: 04/24/13 09:30

Date Received: 04/25/13 11:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.2	J	10	1.1	ug/L		05/03/13 13:32		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 13:32		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 13:32		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 13:32		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 13:32		1
Chloroform	1.0	U	1.0	0.16	ug/L		05/03/13 13:32		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 13:32		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 13:32		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:32		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 13:32		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 13:32		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 13:32		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 13:32		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:32		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:32		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 13:32		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 13:32		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 13:32		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 13:32		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 13:32		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 13:32		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:32		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/03/13 13:32		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 13:32		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:32		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 13:32		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:32		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:32		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 13:32		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:32		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 13:32		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 13:32		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 13:32		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		66 - 117		05/03/13 13:32	1
Dibromofluoromethane (Surr)	93		75 - 121		05/03/13 13:32	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB1-OEPA

Lab Sample ID: 240-23650-39

Date Collected: 04/24/13 09:30
Date Received: 04/25/13 11:00

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/03/13 13:32	1
Toluene-d8 (Surr)	93		74 - 115		05/03/13 13:32	1

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB2-IE

Date Collected: 04/24/13 09:50

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-40

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.1	ug/L		05/03/13 13:55		1
Benzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
Bromoform	1.0	U	1.0	0.64	ug/L		05/03/13 13:55		1
Bromomethane	1.0	U	1.0	0.41	ug/L		05/03/13 13:55		1
2-Butanone (MEK)	10	U	10	0.57	ug/L		05/03/13 13:55		1
Carbon disulfide	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Chlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
Chloroethane	1.0	U	1.0	0.29	ug/L		05/03/13 13:55		1
Chloroform	0.28	J	1.0	0.16	ug/L		05/03/13 13:55		1
Chloromethane	1.0	U	1.0	0.30	ug/L		05/03/13 13:55		1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L		05/03/13 13:55		1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:55		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L		05/03/13 13:55		1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L		05/03/13 13:55		1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L		05/03/13 13:55		1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L		05/03/13 13:55		1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:55		1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:55		1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L		05/03/13 13:55		1
Ethylbenzene	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
2-Hexanone	10	U	10	0.41	ug/L		05/03/13 13:55		1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
Methylene Chloride	1.0	U	1.0	0.33	ug/L		05/03/13 13:55		1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L		05/03/13 13:55		1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
n-Hexane	1.0	U	1.0	0.26	ug/L		05/03/13 13:55		1
Styrene	1.0	U	1.0	0.11	ug/L		05/03/13 13:55		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L		05/03/13 13:55		1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L		05/03/13 13:55		1
Toluene	1.0	U	1.0	0.13	ug/L		05/03/13 13:55		1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L		05/03/13 13:55		1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L		05/03/13 13:55		1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L		05/03/13 13:55		1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L		05/03/13 13:55		1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L		05/03/13 13:55		1
Trichloroethene	1.0	U	1.0	0.17	ug/L		05/03/13 13:55		1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L		05/03/13 13:55		1
Vinyl chloride	1.0	U	1.0	0.22	ug/L		05/03/13 13:55		1
Xylenes, Total	2.0	U	2.0	0.28	ug/L		05/03/13 13:55		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		66 - 117		05/03/13 13:55	1
Dibromofluoromethane (Surr)	93		75 - 121		05/03/13 13:55	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: EB2-IE
Date Collected: 04/24/13 09:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-40
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		63 - 129		05/03/13 13:55	1
Toluene-d8 (Surr)	89		74 - 115		05/03/13 13:55	1

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Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: TRIP BLANK

Date Collected: 04/22/13 00:00

Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-41

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.3	J	10	1.1	ug/L			05/02/13 13:17	1
Benzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/02/13 13:17	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/02/13 13:17	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/02/13 13:17	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
Chloroethane	1.0	U	1.0	0.29	ug/L			05/02/13 13:17	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/02/13 13:17	1
Chloromethane	1.0	U	1.0	0.30	ug/L			05/02/13 13:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			05/02/13 13:17	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			05/02/13 13:17	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			05/02/13 13:17	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			05/02/13 13:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			05/02/13 13:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			05/02/13 13:17	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 13:17	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/02/13 13:17	1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L			05/02/13 13:17	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
2-Hexanone	10	U	10	0.41	ug/L			05/02/13 13:17	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
Methylene Chloride	1.0	U	1.0	0.33	ug/L			05/02/13 13:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			05/02/13 13:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
n-Hexane	1.0	U	1.0	0.26	ug/L			05/02/13 13:17	1
Styrene	1.0	U	1.0	0.11	ug/L			05/02/13 13:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			05/02/13 13:17	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			05/02/13 13:17	1
Toluene	1.0	U	1.0	0.13	ug/L			05/02/13 13:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/02/13 13:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			05/02/13 13:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			05/02/13 13:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			05/02/13 13:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			05/02/13 13:17	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			05/02/13 13:17	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			05/02/13 13:17	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			05/02/13 13:17	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			05/02/13 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117		05/02/13 13:17	1
Dibromofluoromethane (Surr)	92		75 - 121		05/02/13 13:17	1

TestAmerica Canton

Client Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: TRIP BLANK

Date Collected: 04/22/13 00:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-41

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		63 - 129	05/02/13 13:17		1
Toluene-d8 (Surr)	89		74 - 115		05/02/13 13:17	1

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Surrogate Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-117)	DBFM (75-121)	12DCE (63-129)	TOL (74-115)
240-23650-1	CDFMW-1	86	98	99	89
240-23650-1 MS	CDFMW-1	103	94	100	94
240-23650-1 MSD	CDFMW-1	99	93	97	95
240-23650-2	CDFMW-2	78	100	97	88
240-23650-3	CDFMW-19	78	101	96	88
240-23650-4	CDFMW-3	87	103	100	87
240-23650-5	CDFMW-18	80	99	99	89
240-23650-6	CDFMW-4	78	97	98	88
240-23650-7	MW-36	88	109	104	84
240-23650-8	CDFMW-14	81	98	97	90
240-23650-9	MW-36D	86	102	96	84
240-23650-10	CDFMW-9	82	100	94	91
240-23650-11	MW-6	81	105	96	88
240-23650-12	MW-29	81	98	96	88
240-23650-13	MW-33	81	100	95	87
240-23650-14	CDFMW-22	86	101	98	87
240-23650-15	CDFMW-10	81	97	92	91
240-23650-16	CDFMW-16	86	98	96	90
240-23650-17	CDFMW-11	86	87	76	87
240-23650-18	CDFMW-23	89	90	75	89
240-23650-19	CDFMW-21	83	93	79	90
240-23650-20	CDFMW-7	88	90	80	90
240-23650-21	CDFMW-21D	88	92	79	89
240-23650-22	FW-9	85	94	82	91
240-23650-23	MW-19	84	90	81	93
240-23650-24	MW-45	87	91	80	90
240-23650-25	MW-43	89	94	81	90
240-23650-26	MW-35	85	95	80	88
240-23650-27	CDFMW-20	84	94	80	88
240-23650-28	MW-14	87	92	82	89
240-23650-29	MW-23	86	90	81	87
240-23650-30	MW-22	85	94	79	88
240-23650-31	MW-38	83	90	80	89
240-23650-32	MW-13	87	91	81	88
240-23650-33	MW-34	82	93	81	88
240-23650-34	CDFMW-12	85	91	81	88
240-23650-35	MW-44	85	89	77	87
240-23650-35 MS	MW-44	94	94	82	91
240-23650-35 MSD	MW-44	96	92	78	94
240-23650-36	MW-5	86	93	80	89
240-23650-36 MS	MW-5	96	92	76	92
240-23650-36 MSD	MW-5	89	91	84	92
240-23650-37	MW-5D	86	94	80	93
240-23650-38	AMBIENT	87	94	83	91
240-23650-39	EB1-OEPA	91	93	80	93
240-23650-40	EB2-IE	86	93	80	89
240-23650-41	TRIP BLANK	85	92	83	89
LCS 240-84108/3	Lab Control Sample	96	96	98	94
LCS 240-84430/4	Lab Control Sample	93	95	82	94

TestAmerica Canton

Surrogate Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-117)	DBFM (75-121)	12DCE (63-129)	TOL (74-115)
LCS 240-84603/4	Lab Control Sample	94	96	81	94
MB 240-84108/5	Method Blank	81	99	94	89
MB 240-84430/5	Method Blank	88	92	78	90
MB 240-84603/5	Method Blank	85	93	81	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (20-110)	2FP (10-110)	NBZ (21-110)	PHL (21-110)	TPH (24-110)	TBP (21-110)
240-23650-14	CDFMW-22	51	54	54	56	41	65
240-23650-15	CDFMW-10	46	49	50	51	37	61
240-23650-17	CDFMW-11	56	0 X	50	55	46	0 X
240-23650-20	CDFMW-7	49	54	51	57	41	66
LCS 240-83983/13-A	Lab Control Sample	76	75	76	75	54	81
MB 240-83983/12-A	Method Blank	53	53	55	54	43	54

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-84108/5

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	10	U	10	1.1	ug/L			04/30/13 11:31	1
Benzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
Bromoform	1.0	U	1.0	0.64	ug/L			04/30/13 11:31	1
Bromomethane	1.0	U	1.0	0.41	ug/L			04/30/13 11:31	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			04/30/13 11:31	1
Carbon disulfide	0.266	J	1.0	0.13	ug/L			04/30/13 11:31	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
Chloroethane	1.0	U	1.0	0.29	ug/L			04/30/13 11:31	1
Chloroform	1.0	U	1.0	0.16	ug/L			04/30/13 11:31	1
Chloromethane	1.0	U	1.0	0.30	ug/L			04/30/13 11:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			04/30/13 11:31	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			04/30/13 11:31	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			04/30/13 11:31	1
1,2-Dibromoethane	1.0	U	1.0	0.24	ug/L			04/30/13 11:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.14	ug/L			04/30/13 11:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			04/30/13 11:31	1
1,1-Dichloroethane	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
1,2-Dichloroethane	1.0	U	1.0	0.22	ug/L			04/30/13 11:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/30/13 11:31	1
1,2-Dichloropropene	1.0	U	1.0	0.18	ug/L			04/30/13 11:31	1
Ethylbenzene	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
2-Hexanone	10	U	10	0.41	ug/L			04/30/13 11:31	1
Isopropylbenzene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
Methylene Chloride	1.29		1.0	0.33	ug/L			04/30/13 11:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.32	ug/L			04/30/13 11:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
n-Hexane	1.0	U	1.0	0.26	ug/L			04/30/13 11:31	1
Styrene	1.0	U	1.0	0.11	ug/L			04/30/13 11:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18	ug/L			04/30/13 11:31	1
Tetrachloroethene	1.0	U	1.0	0.29	ug/L			04/30/13 11:31	1
Toluene	1.0	U	1.0	0.13	ug/L			04/30/13 11:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/30/13 11:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			04/30/13 11:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.15	ug/L			04/30/13 11:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.22	ug/L			04/30/13 11:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.27	ug/L			04/30/13 11:31	1
Trichloroethene	1.0	U	1.0	0.17	ug/L			04/30/13 11:31	1
Trichlorofluoromethane	1.0	U	1.0	0.21	ug/L			04/30/13 11:31	1
Vinyl chloride	1.0	U	1.0	0.22	ug/L			04/30/13 11:31	1
Xylenes, Total	2.0	U	2.0	0.28	ug/L			04/30/13 11:31	1

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-84108/5

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		81			66 - 117		04/30/13 11:31	1
Dibromofluoromethane (Surr)		99			75 - 121		04/30/13 11:31	1
1,2-Dichloroethane-d4 (Surr)		94			63 - 129		04/30/13 11:31	1
Toluene-d8 (Surr)		89			74 - 115		04/30/13 11:31	1

Lab Sample ID: LCS 240-84108/3

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LC S	LCS	Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier					
Acetone	20.0	19.4		ug/L		97	43 - 136	
Benzene	10.0	9.52		ug/L		95	83 - 112	
Bromodichloromethane	10.0	10.6		ug/L		106	72 - 121	
Bromoform	10.0	11.4		ug/L		114	40 - 131	
Bromomethane	10.0	4.69		ug/L		47	11 - 185	
2-Butanone (MEK)	20.0	21.0		ug/L		105	60 - 126	
Carbon disulfide	10.0	9.35		ug/L		94	62 - 142	
Carbon tetrachloride	10.0	8.82		ug/L		88	66 - 128	
Chlorobenzene	10.0	9.73		ug/L		97	85 - 110	
Chloroethane	10.0	5.85		ug/L		59	25 - 153	
Chloroform	10.0	9.48		ug/L		95	79 - 117	
Chloromethane	10.0	5.90		ug/L		59	44 - 126	
cis-1,2-Dichloroethene	10.0	9.36		ug/L		94	80 - 113	
cis-1,3-Dichloropropene	10.0	8.92		ug/L		89	61 - 115	
Dibromochloromethane	10.0	10.9		ug/L		109	64 - 119	
1,2-Dibromo-3-Chloropropane	10.0	11.6		ug/L		116	42 - 136	
1,2-Dibromoethane	10.0	10.5		ug/L		105	79 - 113	
1,2-Dichlorobenzene	10.0	9.57		ug/L		96	81 - 110	
1,3-Dichlorobenzene	10.0	9.50		ug/L		95	80 - 110	
1,4-Dichlorobenzene	10.0	9.27		ug/L		93	82 - 110	
Dichlorodifluoromethane	10.0	7.40		ug/L		74	19 - 129	
1,1-Dichloroethane	10.0	9.56		ug/L		96	82 - 115	
1,2-Dichloroethane	10.0	10.2		ug/L		102	71 - 127	
1,1-Dichloroethene	10.0	8.62		ug/L		86	78 - 131	
1,2-Dichloropropene	10.0	9.80		ug/L		98	81 - 115	
Ethylbenzene	10.0	9.66		ug/L		97	83 - 112	
2-Hexanone	20.0	22.3		ug/L		112	55 - 133	
Isopropylbenzene	10.0	9.92		ug/L		99	75 - 114	
Methylene Chloride	10.0	10.2		ug/L		102	66 - 131	
4-Methyl-2-pentanone (MIBK)	20.0	24.0		ug/L		120	63 - 128	
Methyl tert-butyl ether	10.0	10.2		ug/L		102	52 - 144	
m-Xylene & p-Xylene	20.0	19.8		ug/L		99	83 - 113	
n-Hexane	10.0	10.5		ug/L		105	66 - 137	
o-Xylene	10.0	9.97		ug/L		100	83 - 113	
Styrene	10.0	10.3		ug/L		103	79 - 114	
1,1,2,2-Tetrachloroethane	10.0	9.58		ug/L		96	68 - 118	
Tetrachloroethene	10.0	10.0		ug/L		100	79 - 114	
Toluene	10.0	9.36		ug/L		94	84 - 111	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84108/3

Matrix: Water

Analysis Batch: 84108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
trans-1,2-Dichloroethene	10.0	9.44		ug/L		94	83 - 117
trans-1,3-Dichloropropene	10.0	9.02		ug/L		90	58 - 117
1,2,4-Trichlorobenzene	10.0	8.03		ug/L		80	48 - 135
1,1,1-Trichloroethane	10.0	9.36		ug/L		94	74 - 118
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 112
Trichloroethene	10.0	10.3		ug/L		103	76 - 117
Trichlorofluoromethane	10.0	7.12		ug/L		71	49 - 157
Vinyl chloride	10.0	7.97		ug/L		80	53 - 127
Xylenes, Total	30.0	29.8		ug/L		99	83 - 112

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	98		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: 240-23650-1 MS

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Acetone	2.1	J	20.0	17.9		ug/L		79	33 - 145
Benzene	1.0	U	10.0	9.28		ug/L		93	72 - 121
Bromodichloromethane	1.0	U	10.0	10.1		ug/L		101	67 - 120
Bromoform	1.0	U	10.0	11.0		ug/L		110	32 - 128
Bromomethane	1.0	U	10.0	3.56		ug/L		36	10 - 186
2-Butanone (MEK)	10	U	20.0	20.3		ug/L		102	54 - 129
Carbon disulfide	1.0	U	10.0	8.56		ug/L		86	57 - 147
Carbon tetrachloride	1.0	U	10.0	8.39		ug/L		84	59 - 129
Chlorobenzene	1.0	U	10.0	9.32		ug/L		93	80 - 110
Chloroethane	1.0	U	10.0	5.54		ug/L		55	21 - 165
Chloroform	1.0	U	10.0	9.30		ug/L		93	76 - 118
Chloromethane	1.0	U	10.0	5.83		ug/L		58	33 - 132
cis-1,2-Dichloroethene	1.1		10.0	10.5		ug/L		93	70 - 120
cis-1,3-Dichloropropene	1.0	U	10.0	7.75		ug/L		77	51 - 110
Dibromochloromethane	1.0	U	10.0	10.5		ug/L		105	56 - 118
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	11.2		ug/L		112	32 - 139
1,2-Dibromoethane	1.0	U	10.0	10.1		ug/L		101	74 - 113
1,2-Dichlorobenzene	1.0	U	10.0	8.94		ug/L		89	75 - 111
1,3-Dichlorobenzene	1.0	U	10.0	8.68		ug/L		87	73 - 110
1,4-Dichlorobenzene	1.0	U	10.0	8.45		ug/L		84	75 - 110
Dichlorodifluoromethane	1.0	U	10.0	7.06		ug/L		71	17 - 128
1,1-Dichloroethane	2.3		10.0	11.3		ug/L		90	79 - 116
1,2-Dichloroethane	1.0	U	10.0	9.73		ug/L		97	68 - 129
1,1-Dichloroethene	1.0	U	10.0	8.37		ug/L		84	74 - 135
1,2-Dichloropropane	1.0	U	10.0	9.56		ug/L		96	78 - 115
Ethylbenzene	1.0	U	10.0	9.39		ug/L		94	75 - 116
2-Hexanone	10	U	20.0	24.7		ug/L		123	47 - 139

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-1 MS

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
Isopropylbenzene	1.0	U	10.0	9.60		ug/L		96	68 - 116		
Methylene Chloride	1.0	U	10.0	8.70		ug/L		87	63 - 128		
4-Methyl-2-pentanone (MIBK)	10	U	20.0	24.4		ug/L		122	56 - 131		
Methyl tert-butyl ether	1.0	U	10.0	9.87		ug/L		99	46 - 144		
m-Xylene & p-Xylene	2.0		20.0	19.0		ug/L		95	75 - 117		
n-Hexane	1.0	U	10.0	9.66		ug/L		97	54 - 138		
o-Xylene	1.0		10.0	9.74		ug/L		97	76 - 116		
Styrene	1.0	U	10.0	9.86		ug/L		99	71 - 117		
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.55		ug/L		96	63 - 122		
Tetrachloroethene	1.0	U	10.0	9.91		ug/L		99	70 - 117		
Toluene	1.0	U	10.0	9.06		ug/L		91	78 - 114		
trans-1,2-Dichloroethene	1.3		10.0	10.3		ug/L		90	80 - 119		
trans-1,3-Dichloropropene	1.0	U	10.0	8.41		ug/L		84	46 - 116		
1,2,4-Trichlorobenzene	1.0	U	10.0	7.76		ug/L		78	38 - 138		
1,1,1-Trichloroethane	1.0	U	10.0	8.95		ug/L		90	68 - 121		
1,1,2-Trichloroethane	1.0	U	10.0	9.98		ug/L		100	75 - 115		
Trichloroethene	1.0	U	10.0	9.79		ug/L		98	66 - 120		
Trichlorofluoromethane	1.0	U	10.0	6.88		ug/L		69	46 - 157		
Vinyl chloride	0.71	J	10.0	8.66		ug/L		80	49 - 130		
Xylenes, Total	2.0	U	30.0	28.7		ug/L		96	76 - 116		

MS MS

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		66 - 117
Dibromofluoromethane (Surr)	94		75 - 121
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: 240-23650-1 MSD

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	2.1	J	20.0	20.2		ug/L		90	33 - 145	12	30
Benzene	1.0	U	10.0	9.31		ug/L		93	72 - 121	0	30
Bromodichloromethane	1.0	U	10.0	10.2		ug/L		102	67 - 120	1	30
Bromoform	1.0	U	10.0	10.7		ug/L		107	32 - 128	3	30
Bromomethane	1.0	U	10.0	3.47		ug/L		35	10 - 186	3	30
2-Butanone (MEK)	10	U	20.0	20.9		ug/L		104	54 - 129	3	30
Carbon disulfide	1.0	U	10.0	8.27		ug/L		83	57 - 147	3	30
Carbon tetrachloride	1.0	U	10.0	8.32		ug/L		83	59 - 129	1	30
Chlorobenzene	1.0	U	10.0	9.29		ug/L		93	80 - 110	0	30
Chloroethane	1.0	U	10.0	5.48		ug/L		55	21 - 165	1	30
Chloroform	1.0	U	10.0	9.30		ug/L		93	76 - 118	0	30
Chloromethane	1.0	U	10.0	5.24		ug/L		52	33 - 132	11	30
cis-1,2-Dichloroethene	1.1		10.0	10.4		ug/L		93	70 - 120	1	30
cis-1,3-Dichloropropene	1.0	U	10.0	7.93		ug/L		79	51 - 110	2	30
Dibromochloromethane	1.0	U	10.0	10.3		ug/L		103	56 - 118	3	30
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	13.0		ug/L		130	32 - 139	15	30

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-1 MSD

Matrix: Water

Analysis Batch: 84108

Client Sample ID: CDFMW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,2-Dibromoethane	1.0	U	10.0	10.4		ug/L		104	74 - 113	3	30	
1,2-Dichlorobenzene	1.0	U	10.0	9.13		ug/L		91	75 - 111	2	30	
1,3-Dichlorobenzene	1.0	U	10.0	9.06		ug/L		91	73 - 110	4	30	
1,4-Dichlorobenzene	1.0	U	10.0	8.86		ug/L		89	75 - 110	5	30	
Dichlorodifluoromethane	1.0	U	10.0	6.84		ug/L		68	17 - 128	3	30	
1,1-Dichloroethane	2.3		10.0	11.5		ug/L		92	79 - 116	1	30	
1,2-Dichloroethane	1.0	U	10.0	9.86		ug/L		99	68 - 129	1	30	
1,1-Dichloroethene	1.0	U	10.0	9.42		ug/L		94	74 - 135	12	30	
1,2-Dichloropropane	1.0	U	10.0	9.52		ug/L		95	78 - 115	0	30	
Ethylbenzene	1.0	U	10.0	9.18		ug/L		92	75 - 116	2	30	
2-Hexanone	10	U	20.0	25.3		ug/L		126	47 - 139	2	30	
Isopropylbenzene	1.0	U	10.0	9.25		ug/L		92	68 - 116	4	30	
Methylene Chloride	1.0	U	10.0	8.18		ug/L		82	63 - 128	6	30	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	25.7		ug/L		128	56 - 131	5	30	
Methyl tert-butyl ether	1.0	U	10.0	9.75		ug/L		98	46 - 144	1	30	
m-Xylene & p-Xylene	2.0		20.0	18.7		ug/L		94	75 - 117	2	30	
n-Hexane	1.0	U	10.0	9.90		ug/L		99	54 - 138	2	30	
o-Xylene	1.0		10.0	9.42		ug/L		94	76 - 116	3	30	
Styrene	1.0	U	10.0	9.49		ug/L		95	71 - 117	4	30	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	10.5		ug/L		105	63 - 122	10	30	
Tetrachloroethylene	1.0	U	10.0	9.96		ug/L		100	70 - 117	0	30	
Toluene	1.0	U	10.0	9.16		ug/L		92	78 - 114	1	30	
trans-1,2-Dichloroethene	1.3		10.0	10.2		ug/L		90	80 - 119	0	30	
trans-1,3-Dichloropropene	1.0	U	10.0	8.60		ug/L		86	46 - 116	2	30	
1,2,4-Trichlorobenzene	1.0	U	10.0	8.64		ug/L		86	38 - 138	11	30	
1,1,1-Trichloroethane	1.0	U	10.0	8.87		ug/L		89	68 - 121	1	30	
1,1,2-Trichloroethane	1.0	U	10.0	10.1		ug/L		101	75 - 115	1	30	
Trichloroethene	1.0	U	10.0	10.1		ug/L		101	66 - 120	3	30	
Trichlorofluoromethane	1.0	U	10.0	6.43		ug/L		64	46 - 157	7	30	
Vinyl chloride	0.71	J	10.0	8.51		ug/L		78	49 - 130	2	30	
Xylenes, Total	2.0	U	30.0	28.1		ug/L		94	76 - 116	2	30	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		66 - 117
Dibromofluoromethane (Surr)	93		75 - 121
1,2-Dichloroethane-d4 (Surr)	97		63 - 129
Toluene-d8 (Surr)	95		74 - 115

Lab Sample ID: MB 240-84430/5

Matrix: Water

Analysis Batch: 84430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	10	U	10	1.1	ug/L			05/02/13 11:48	1
Benzene	1.0	U	1.0	0.13	ug/L			05/02/13 11:48	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/02/13 11:48	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/02/13 11:48	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/02/13 11:48	1

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-84430/5

Matrix: Water

Analysis Batch: 84430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
2-Butanone (MEK)	10	U			10	0.57	ug/L			05/02/13 11:48	1
Carbon disulfide	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Carbon tetrachloride	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Chlorobenzene	1.0	U			1.0	0.15	ug/L			05/02/13 11:48	1
Chloroethane	1.0	U			1.0	0.29	ug/L			05/02/13 11:48	1
Chloroform	1.0	U			1.0	0.16	ug/L			05/02/13 11:48	1
Chloromethane	1.0	U			1.0	0.30	ug/L			05/02/13 11:48	1
cis-1,2-Dichloroethene	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
cis-1,3-Dichloropropene	1.0	U			1.0	0.14	ug/L			05/02/13 11:48	1
Dibromochloromethane	1.0	U			1.0	0.18	ug/L			05/02/13 11:48	1
1,2-Dibromo-3-Chloropropane	2.0	U			2.0	0.67	ug/L			05/02/13 11:48	1
1,2-Dibromoethane	1.0	U			1.0	0.24	ug/L			05/02/13 11:48	1
1,2-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
1,3-Dichlorobenzene	1.0	U			1.0	0.14	ug/L			05/02/13 11:48	1
1,4-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Dichlorodifluoromethane	1.0	U			1.0	0.31	ug/L			05/02/13 11:48	1
1,1-Dichloroethane	1.0	U			1.0	0.15	ug/L			05/02/13 11:48	1
1,2-Dichloroethane	1.0	U			1.0	0.22	ug/L			05/02/13 11:48	1
1,1-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/02/13 11:48	1
1,2-Dichloropropane	1.0	U			1.0	0.18	ug/L			05/02/13 11:48	1
Ethylbenzene	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
2-Hexanone	10	U			10	0.41	ug/L			05/02/13 11:48	1
Isopropylbenzene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
Methylene Chloride	1.0	U			1.0	0.33	ug/L			05/02/13 11:48	1
4-Methyl-2-pentanone (MIBK)	10	U			10	0.32	ug/L			05/02/13 11:48	1
Methyl tert-butyl ether	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
n-Hexane	1.0	U			1.0	0.26	ug/L			05/02/13 11:48	1
Styrene	1.0	U			1.0	0.11	ug/L			05/02/13 11:48	1
1,1,2,2-Tetrachloroethane	1.0	U			1.0	0.18	ug/L			05/02/13 11:48	1
Tetrachloroethene	1.0	U			1.0	0.29	ug/L			05/02/13 11:48	1
Toluene	1.0	U			1.0	0.13	ug/L			05/02/13 11:48	1
trans-1,2-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/02/13 11:48	1
trans-1,3-Dichloropropene	1.0	U			1.0	0.19	ug/L			05/02/13 11:48	1
1,2,4-Trichlorobenzene	1.0	U			1.0	0.15	ug/L			05/02/13 11:48	1
1,1,1-Trichloroethane	1.0	U			1.0	0.22	ug/L			05/02/13 11:48	1
1,1,2-Trichloroethane	1.0	U			1.0	0.27	ug/L			05/02/13 11:48	1
Trichloroethene	1.0	U			1.0	0.17	ug/L			05/02/13 11:48	1
Trichlorofluoromethane	1.0	U			1.0	0.21	ug/L			05/02/13 11:48	1
Vinyl chloride	1.0	U			1.0	0.22	ug/L			05/02/13 11:48	1
Xylenes, Total	2.0	U			2.0	0.28	ug/L			05/02/13 11:48	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4-Bromofluorobenzene (Surr)	88		66 - 117				05/02/13 11:48	1
Dibromofluoromethane (Surr)	92		75 - 121				05/02/13 11:48	1
1,2-Dichloroethane-d4 (Surr)	78		63 - 129				05/02/13 11:48	1
Toluene-d8 (Surr)	90		74 - 115				05/02/13 11:48	1

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84430/4

Matrix: Water

Analysis Batch: 84430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Acetone	20.0	16.3		ug/L	82	43 - 136		
Benzene	10.0	9.13		ug/L	91	83 - 112		
Bromodichloromethane	10.0	9.19		ug/L	92	72 - 121		
Bromoform	10.0	9.96		ug/L	100	40 - 131		
Bromomethane	10.0	5.38		ug/L	54	11 - 185		
2-Butanone (MEK)	20.0	16.6		ug/L	83	60 - 126		
Carbon disulfide	10.0	7.27		ug/L	73	62 - 142		
Carbon tetrachloride	10.0	9.97		ug/L	100	66 - 128		
Chlorobenzene	10.0	9.05		ug/L	91	85 - 110		
Chloroethane	10.0	6.57		ug/L	66	25 - 153		
Chloroform	10.0	9.08		ug/L	91	79 - 117		
Chloromethane	10.0	6.45		ug/L	64	44 - 126		
cis-1,2-Dichloroethene	10.0	9.29		ug/L	93	80 - 113		
cis-1,3-Dichloropropene	10.0	8.51		ug/L	85	61 - 115		
Dibromochloromethane	10.0	9.69		ug/L	97	64 - 119		
1,2-Dibromo-3-Chloropropane	10.0	9.06		ug/L	91	42 - 136		
1,2-Dibromoethane	10.0	9.32		ug/L	93	79 - 113		
1,2-Dichlorobenzene	10.0	9.47		ug/L	95	81 - 110		
1,3-Dichlorobenzene	10.0	9.11		ug/L	91	80 - 110		
1,4-Dichlorobenzene	10.0	8.85		ug/L	89	82 - 110		
Dichlorodifluoromethane	10.0	4.73		ug/L	47	19 - 129		
1,1-Dichloroethane	10.0	8.90		ug/L	89	82 - 115		
1,2-Dichloroethane	10.0	8.53		ug/L	85	71 - 127		
1,1-Dichloroethene	10.0	8.27		ug/L	83	78 - 131		
1,2-Dichloropropene	10.0	8.87		ug/L	89	81 - 115		
Ethylbenzene	10.0	9.13		ug/L	91	83 - 112		
2-Hexanone	20.0	16.4		ug/L	82	55 - 133		
Isopropylbenzene	10.0	8.61		ug/L	86	75 - 114		
Methylene Chloride	10.0	8.37		ug/L	84	66 - 131		
4-Methyl-2-pentanone (MIBK)	20.0	15.5		ug/L	78	63 - 128		
Methyl tert-butyl ether	10.0	8.39		ug/L	84	52 - 144		
m-Xylene & p-Xylene	20.0	18.0		ug/L	90	83 - 113		
n-Hexane	10.0	9.83		ug/L	98	66 - 137		
o-Xylene	10.0	8.77		ug/L	88	83 - 113		
Styrene	10.0	8.92		ug/L	89	79 - 114		
1,1,2,2-Tetrachloroethane	10.0	7.68		ug/L	77	68 - 118		
Tetrachloroethene	10.0	10.6		ug/L	106	79 - 114		
Toluene	10.0	9.23		ug/L	92	84 - 111		
trans-1,2-Dichloroethene	10.0	9.25		ug/L	92	83 - 117		
trans-1,3-Dichloropropene	10.0	8.88		ug/L	89	58 - 117		
1,2,4-Trichlorobenzene	10.0	8.44		ug/L	84	48 - 135		
1,1,1-Trichloroethane	10.0	9.71		ug/L	97	74 - 118		
1,1,2-Trichloroethane	10.0	9.66		ug/L	97	80 - 112		
Trichloroethene	10.0	10.1		ug/L	101	76 - 117		
Trichlorofluoromethane	10.0	7.16		ug/L	72	49 - 157		
Vinyl chloride	10.0	6.70		ug/L	67	53 - 127		
Xylenes, Total	30.0	26.8		ug/L	89	83 - 112		

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84430/4

Matrix: Water

Analysis Batch: 84430

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		66 - 117
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	82		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: 240-23650-35 MS

Matrix: Water

Analysis Batch: 84430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acetone	10	U	20.0	14.2		ug/L		71	33 - 145
Benzene	1.0	U	10.0	9.64		ug/L		96	72 - 121
Bromodichloromethane	1.0	U	10.0	9.94		ug/L		99	67 - 120
Bromoform	1.0	U	10.0	9.98		ug/L		100	32 - 128
Bromomethane	1.0	U	10.0	5.08		ug/L		51	10 - 186
2-Butanone (MEK)	10	U	20.0	16.3		ug/L		82	54 - 129
Carbon disulfide	1.0	U	10.0	7.38		ug/L		74	57 - 147
Carbon tetrachloride	1.0	U	10.0	9.88		ug/L		99	59 - 129
Chlorobenzene	1.0	U	10.0	9.51		ug/L		95	80 - 110
Chloroethane	1.0	U	10.0	6.46		ug/L		65	21 - 165
Chloroform	1.0	U	10.0	9.66		ug/L		97	76 - 118
Chloromethane	1.0	U	10.0	6.64		ug/L		66	33 - 132
cis-1,2-Dichloroethene	10		10.0	20.5		ug/L		102	70 - 120
cis-1,3-Dichloropropene	1.0	U	10.0	8.58		ug/L		86	51 - 110
Dibromochloromethane	1.0	U	10.0	9.67		ug/L		97	56 - 118
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.58		ug/L		86	32 - 139
1,2-Dibromoethane	1.0	U	10.0	9.52		ug/L		95	74 - 113
1,2-Dichlorobenzene	1.0	U	10.0	9.05		ug/L		90	75 - 111
1,3-Dichlorobenzene	1.0	U	10.0	9.02		ug/L		90	73 - 110
1,4-Dichlorobenzene	1.0	U	10.0	9.08		ug/L		91	75 - 110
Dichlorodifluoromethane	1.0	U	10.0	4.04		ug/L		40	17 - 128
1,1-Dichloroethane	1.0		10.0	10.4		ug/L		93	79 - 116
1,2-Dichloroethane	1.0	U	10.0	9.19		ug/L		92	68 - 129
1,1-Dichloroethene	1.0	U	10.0	8.15		ug/L		82	74 - 135
1,2-Dichloropropane	1.0	U	10.0	9.11		ug/L		91	78 - 115
Ethylbenzene	1.0	U	10.0	9.22		ug/L		92	75 - 116
2-Hexanone	10	U	20.0	15.8		ug/L		79	47 - 139
Isopropylbenzene	1.0	U	10.0	8.82		ug/L		88	68 - 116
Methylene Chloride	1.0	U	10.0	8.31		ug/L		83	63 - 128
4-Methyl-2-pentanone (MIBK)	10	U	20.0	16.0		ug/L		80	56 - 131
Methyl tert-butyl ether	1.0	U	10.0	8.66		ug/L		87	46 - 144
m-Xylene & p-Xylene	2.0		20.0	18.7		ug/L		94	75 - 117
n-Hexane	1.0	U	10.0	7.84		ug/L		78	54 - 138
o-Xylene	1.0		10.0	9.27		ug/L		93	76 - 116
Styrene	1.0	U	10.0	9.48		ug/L		95	71 - 117
1,1,2,2-Tetrachloroethane	1.0	U	10.0	7.80		ug/L		78	63 - 122
Tetrachloroethene	0.73	J	10.0	11.0		ug/L		102	70 - 117
Toluene	1.0	U	10.0	9.21		ug/L		92	78 - 114

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-35 MS

Matrix: Water

Analysis Batch: 84430

Client Sample ID: MW-44
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
trans-1,2-Dichloroethene	1.7		10.0	11.5		ug/L		98	80 - 119
trans-1,3-Dichloropropene	1.0	U	10.0	8.61		ug/L		86	46 - 116
1,2,4-Trichlorobenzene	1.0	U	10.0	8.35		ug/L		84	38 - 138
1,1,1-Trichloroethane	0.76	J	10.0	10.8		ug/L		101	68 - 121
1,1,2-Trichloroethane	1.0	U	10.0	9.76		ug/L		98	75 - 115
Trichloroethene	17		10.0	26.6		ug/L		101	66 - 120
Trichlorofluoromethane	1.0	U	10.0	6.01		ug/L		60	46 - 157
Vinyl chloride	0.49	J	10.0	6.20		ug/L		57	49 - 130
Xylenes, Total	2.0	U	30.0	28.0		ug/L		93	76 - 116
MS MS									
Surrogate	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
4-Bromofluorobenzene (Surr)				94		ug/L			66 - 117
Dibromofluoromethane (Surr)				94		ug/L			75 - 121
1,2-Dichloroethane-d4 (Surr)				82		ug/L			63 - 129
Toluene-d8 (Surr)				91		ug/L			74 - 115

Lab Sample ID: 240-23650-35 MSD

Matrix: Water

Analysis Batch: 84430

Client Sample ID: MW-44
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Acetone	10	U	20.0	13.2		ug/L		66	33 - 145	7	30
Benzene	1.0	U	10.0	9.68		ug/L		97	72 - 121	0	30
Bromodichloromethane	1.0	U	10.0	9.50		ug/L		95	67 - 120	4	30
Bromoform	1.0	U	10.0	10.1		ug/L		101	32 - 128	1	30
Bromomethane	1.0	U	10.0	4.87		ug/L		49	10 - 186	4	30
2-Butanone (MEK)	10	U	20.0	15.2		ug/L		76	54 - 129	7	30
Carbon disulfide	1.0	U	10.0	7.39		ug/L		74	57 - 147	0	30
Carbon tetrachloride	1.0	U	10.0	9.92		ug/L		99	59 - 129	0	30
Chlorobenzene	1.0	U	10.0	9.62		ug/L		96	80 - 110	1	30
Chloroethane	1.0	U	10.0	6.66		ug/L		67	21 - 165	3	30
Chloroform	1.0	U	10.0	9.50		ug/L		95	76 - 118	2	30
Chloromethane	1.0	U	10.0	6.84		ug/L		68	33 - 132	3	30
cis-1,2-Dichloroethene	10		10.0	20.0		ug/L		97	70 - 120	2	30
cis-1,3-Dichloropropene	1.0	U	10.0	8.66		ug/L		87	51 - 110	1	30
Dibromochloromethane	1.0	U	10.0	9.82		ug/L		98	56 - 118	2	30
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.84		ug/L		88	32 - 139	3	30
1,2-Dibromoethane	1.0	U	10.0	9.63		ug/L		96	74 - 113	1	30
1,2-Dichlorobenzene	1.0	U	10.0	9.38		ug/L		94	75 - 111	4	30
1,3-Dichlorobenzene	1.0	U	10.0	9.26		ug/L		93	73 - 110	3	30
1,4-Dichlorobenzene	1.0	U	10.0	9.27		ug/L		93	75 - 110	2	30
Dichlorodifluoromethane	1.0	U	10.0	4.17		ug/L		42	17 - 128	3	30
1,1-Dichloroethane	1.0		10.0	10.1		ug/L		91	79 - 116	2	30
1,2-Dichloroethane	1.0	U	10.0	8.91		ug/L		89	68 - 129	3	30
1,1-Dichloroethene	1.0	U	10.0	8.16		ug/L		82	74 - 135	0	30
1,2-Dichloropropane	1.0	U	10.0	9.05		ug/L		91	78 - 115	1	30
Ethylbenzene	1.0	U	10.0	9.76		ug/L		98	75 - 116	6	30
2-Hexanone	10	U	20.0	16.2		ug/L		81	47 - 139	2	30

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-35 MSD

Matrix: Water

Analysis Batch: 84430

Client Sample ID: MW-44
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Isopropylbenzene	1.0	U	10.0	9.10		ug/L		91	68 - 116	3	30	
Methylene Chloride	1.0	U	10.0	7.68		ug/L		77	63 - 128	8	30	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	16.4		ug/L		82	56 - 131	2	30	
Methyl tert-butyl ether	1.0	U	10.0	8.57		ug/L		86	46 - 144	1	30	
m-Xylene & p-Xylene	2.0		20.0	19.5		ug/L		98	75 - 117	4	30	
n-Hexane	1.0	U	10.0	8.17		ug/L		82	54 - 138	4	30	
o-Xylene	1.0		10.0	9.26		ug/L		93	76 - 116	0	30	
Styrene	1.0	U	10.0	9.52		ug/L		95	71 - 117	0	30	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.19		ug/L		82	63 - 122	5	30	
Tetrachloroethene	0.73	J	10.0	11.9		ug/L		111	70 - 117	8	30	
Toluene	1.0	U	10.0	9.79		ug/L		98	78 - 114	6	30	
trans-1,2-Dichloroethene	1.7		10.0	11.6		ug/L		99	80 - 119	1	30	
trans-1,3-Dichloropropene	1.0	U	10.0	8.95		ug/L		90	46 - 116	4	30	
1,2,4-Trichlorobenzene	1.0	U	10.0	8.68		ug/L		87	38 - 138	4	30	
1,1,1-Trichloroethane	0.76	J	10.0	10.6		ug/L		98	68 - 121	3	30	
1,1,2-Trichloroethane	1.0	U	10.0	9.84		ug/L		98	75 - 115	1	30	
Trichloroethene	17		10.0	26.7		ug/L		102	66 - 120	0	30	
Trichlorofluoromethane	1.0	U	10.0	5.91		ug/L		59	46 - 157	2	30	
Vinyl chloride	0.49	J	10.0	6.49		ug/L		60	49 - 130	5	30	
Xylenes, Total	2.0	U	30.0	28.8		ug/L		96	76 - 116	3	30	

MSD MSD

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	78		63 - 129
Toluene-d8 (Surr)	94		74 - 115

Lab Sample ID: MB 240-84603/5

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	10	U	10	1.1	ug/L			05/03/13 12:02	1
Benzene	1.0	U	1.0	0.13	ug/L			05/03/13 12:02	1
Bromodichloromethane	1.0	U	1.0	0.15	ug/L			05/03/13 12:02	1
Bromoform	1.0	U	1.0	0.64	ug/L			05/03/13 12:02	1
Bromomethane	1.0	U	1.0	0.41	ug/L			05/03/13 12:02	1
2-Butanone (MEK)	10	U	10	0.57	ug/L			05/03/13 12:02	1
Carbon disulfide	1.0	U	1.0	0.13	ug/L			05/03/13 12:02	1
Carbon tetrachloride	1.0	U	1.0	0.13	ug/L			05/03/13 12:02	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			05/03/13 12:02	1
Chloroethane	1.0	U	1.0	0.29	ug/L			05/03/13 12:02	1
Chloroform	1.0	U	1.0	0.16	ug/L			05/03/13 12:02	1
Chloromethane	1.0	U	1.0	0.30	ug/L			05/03/13 12:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			05/03/13 12:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.14	ug/L			05/03/13 12:02	1
Dibromochloromethane	1.0	U	1.0	0.18	ug/L			05/03/13 12:02	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.67	ug/L			05/03/13 12:02	1

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-84603/5

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,2-Dibromoethane	1.0	U			1.0	0.24	ug/L			05/03/13 12:02	1
1,2-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
1,3-Dichlorobenzene	1.0	U			1.0	0.14	ug/L			05/03/13 12:02	1
1,4-Dichlorobenzene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
Dichlorodifluoromethane	1.0	U			1.0	0.31	ug/L			05/03/13 12:02	1
1,1-Dichloroethane	1.0	U			1.0	0.15	ug/L			05/03/13 12:02	1
1,2-Dichloroethane	1.0	U			1.0	0.22	ug/L			05/03/13 12:02	1
1,1-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/03/13 12:02	1
1,2-Dichloropropane	1.0	U			1.0	0.18	ug/L			05/03/13 12:02	1
Ethylbenzene	1.0	U			1.0	0.17	ug/L			05/03/13 12:02	1
2-Hexanone	10	U			10	0.41	ug/L			05/03/13 12:02	1
Isopropylbenzene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
Methylene Chloride	1.0	U			1.0	0.33	ug/L			05/03/13 12:02	1
4-Methyl-2-pentanone (MIBK)	10	U			10	0.32	ug/L			05/03/13 12:02	1
Methyl tert-butyl ether	1.0	U			1.0	0.17	ug/L			05/03/13 12:02	1
n-Hexane	1.0	U			1.0	0.26	ug/L			05/03/13 12:02	1
Styrene	1.0	U			1.0	0.11	ug/L			05/03/13 12:02	1
1,1,2,2-Tetrachloroethane	1.0	U			1.0	0.18	ug/L			05/03/13 12:02	1
Tetrachloroethene	1.0	U			1.0	0.29	ug/L			05/03/13 12:02	1
Toluene	1.0	U			1.0	0.13	ug/L			05/03/13 12:02	1
trans-1,2-Dichloroethene	1.0	U			1.0	0.19	ug/L			05/03/13 12:02	1
trans-1,3-Dichloropropene	1.0	U			1.0	0.19	ug/L			05/03/13 12:02	1
1,2,4-Trichlorobenzene	1.0	U			1.0	0.15	ug/L			05/03/13 12:02	1
1,1,1-Trichloroethane	1.0	U			1.0	0.22	ug/L			05/03/13 12:02	1
1,1,2-Trichloroethane	1.0	U			1.0	0.27	ug/L			05/03/13 12:02	1
Trichloroethene	1.0	U			1.0	0.17	ug/L			05/03/13 12:02	1
Trichlorofluoromethane	1.0	U			1.0	0.21	ug/L			05/03/13 12:02	1
Vinyl chloride	1.0	U			1.0	0.22	ug/L			05/03/13 12:02	1
Xylenes, Total	2.0	U			2.0	0.28	ug/L			05/03/13 12:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		66 - 117			1
Dibromofluoromethane (Surr)	93		75 - 121			1
1,2-Dichloroethane-d4 (Surr)	81		63 - 129			1
Toluene-d8 (Surr)	91		74 - 115			1

Lab Sample ID: LCS 240-84603/4

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS			Unit	D	%Rec	Limits
		Result	Qualifier	Unit				
Acetone	20.0	16.6		ug/L		83	43 - 136	
Benzene	10.0	9.67		ug/L		97	83 - 112	
Bromodichloromethane	10.0	9.88		ug/L		99	72 - 121	
Bromoform	10.0	10.8		ug/L		108	40 - 131	
Bromomethane	10.0	5.02		ug/L		50	11 - 185	
2-Butanone (MEK)	20.0	17.1		ug/L		85	60 - 126	
Carbon disulfide	10.0	7.54		ug/L		75	62 - 142	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-84603/4

Matrix: Water

Analysis Batch: 84603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Carbon tetrachloride	10.0	10.2		ug/L		102	66 - 128
Chlorobenzene	10.0	9.75		ug/L		98	85 - 110
Chloroethane	10.0	6.18		ug/L		62	25 - 153
Chloroform	10.0	9.62		ug/L		96	79 - 117
Chloromethane	10.0	6.43		ug/L		64	44 - 126
cis-1,2-Dichloroethene	10.0	9.88		ug/L		99	80 - 113
cis-1,3-Dichloropropene	10.0	9.13		ug/L		91	61 - 115
Dibromochloromethane	10.0	9.88		ug/L		99	64 - 119
1,2-Dibromo-3-Chloropropane	10.0	8.51		ug/L		85	42 - 136
1,2-Dibromoethane	10.0	9.78		ug/L		98	79 - 113
1,2-Dichlorobenzene	10.0	9.56		ug/L		96	81 - 110
1,3-Dichlorobenzene	10.0	9.78		ug/L		98	80 - 110
1,4-Dichlorobenzene	10.0	9.52		ug/L		95	82 - 110
Dichlorodifluoromethane	10.0	4.09		ug/L		41	19 - 129
1,1-Dichloroethane	10.0	9.21		ug/L		92	82 - 115
1,2-Dichloroethane	10.0	9.25		ug/L		93	71 - 127
1,1-Dichloroethene	10.0	7.83		ug/L		78	78 - 131
1,2-Dichloropropene	10.0	9.21		ug/L		92	81 - 115
Ethylbenzene	10.0	9.69		ug/L		97	83 - 112
2-Hexanone	20.0	16.2		ug/L		81	55 - 133
Isopropylbenzene	10.0	9.25		ug/L		93	75 - 114
Methylene Chloride	10.0	8.59		ug/L		86	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	15.9		ug/L		79	63 - 128
Methyl tert-butyl ether	10.0	9.13		ug/L		91	52 - 144
m-Xylene & p-Xylene	20.0	19.1		ug/L		95	83 - 113
n-Hexane	10.0	8.42		ug/L		84	66 - 137
o-Xylene	10.0	9.53		ug/L		95	83 - 113
Styrene	10.0	9.98		ug/L		100	79 - 114
1,1,2,2-Tetrachloroethane	10.0	7.40		ug/L		74	68 - 118
Tetrachloroethene	10.0	11.2		ug/L		112	79 - 114
Toluene	10.0	9.91		ug/L		99	84 - 111
trans-1,2-Dichloroethene	10.0	9.84		ug/L		98	83 - 117
trans-1,3-Dichloropropene	10.0	9.48		ug/L		95	58 - 117
1,2,4-Trichlorobenzene	10.0	7.96		ug/L		80	48 - 135
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	74 - 118
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	80 - 112
Trichloroethene	10.0	11.0		ug/L		110	76 - 117
Trichlorofluoromethane	10.0	5.82		ug/L		58	49 - 157
Vinyl chloride	10.0	6.15		ug/L		62	53 - 127
Xylenes, Total	30.0	28.6		ug/L		95	83 - 112

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		66 - 117
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	81		63 - 129
Toluene-d8 (Surr)	94		74 - 115

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-36 MS

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Acetone	1.1	J	20.0	10.6		ug/L	53	33 - 145	
Benzene	1.0	U	10.0	9.50		ug/L	95	72 - 121	
Bromodichloromethane	1.0	U	10.0	9.38		ug/L	94	67 - 120	
Bromoform	1.0	U	10.0	9.99		ug/L	100	32 - 128	
Bromomethane	1.0	U	10.0	4.73		ug/L	47	10 - 186	
2-Butanone (MEK)	10	U	20.0	13.7		ug/L	68	54 - 129	
Carbon disulfide	1.0	U	10.0	7.90		ug/L	79	57 - 147	
Carbon tetrachloride	1.0	U	10.0	9.87		ug/L	99	59 - 129	
Chlorobenzene	1.0	U	10.0	9.46		ug/L	95	80 - 110	
Chloroethane	1.0	U	10.0	6.03		ug/L	60	21 - 165	
Chloroform	1.0	U	10.0	9.49		ug/L	95	76 - 118	
Chloromethane	1.0	U	10.0	6.42		ug/L	64	33 - 132	
cis-1,2-Dichloroethene	2.9		10.0	12.3		ug/L	94	70 - 120	
cis-1,3-Dichloropropene	1.0	U	10.0	8.42		ug/L	84	51 - 110	
Dibromochloromethane	1.0	U	10.0	9.54		ug/L	95	56 - 118	
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.25		ug/L	83	32 - 139	
1,2-Dibromoethane	1.0	U	10.0	9.53		ug/L	95	74 - 113	
1,2-Dichlorobenzene	1.0	U	10.0	8.98		ug/L	90	75 - 111	
1,3-Dichlorobenzene	1.0	U	10.0	9.17		ug/L	92	73 - 110	
1,4-Dichlorobenzene	1.0	U	10.0	8.79		ug/L	88	75 - 110	
Dichlorodifluoromethane	1.0	U	10.0	4.12		ug/L	41	17 - 128	
1,1-Dichloroethane	4.0		10.0	12.9		ug/L	89	79 - 116	
1,2-Dichloroethane	1.0	U	10.0	8.98		ug/L	90	68 - 129	
1,1-Dichloroethene	0.48	J	10.0	9.15		ug/L	87	74 - 135	
1,2-Dichloropropene	1.0	U	10.0	8.94		ug/L	89	78 - 115	
Ethylbenzene	1.0	U	10.0	9.29		ug/L	93	75 - 116	
2-Hexanone	10	U	20.0	16.6		ug/L	83	47 - 139	
Isopropylbenzene	1.0	U	10.0	8.94		ug/L	89	68 - 116	
Methylene Chloride	1.0	U	10.0	9.33		ug/L	93	63 - 128	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	15.9		ug/L	79	56 - 131	
Methyl tert-butyl ether	1.0	U	10.0	7.94		ug/L	79	46 - 144	
m-Xylene & p-Xylene	2.0		20.0	19.2		ug/L	96	75 - 117	
n-Hexane	1.0	U	10.0	8.46		ug/L	85	54 - 138	
o-Xylene	1.0		10.0	9.62		ug/L	96	76 - 116	
Styrene	1.0	U	10.0	9.59		ug/L	96	71 - 117	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.80		ug/L	88	63 - 122	
Tetrachloroethene	3.3		10.0	13.7		ug/L	103	70 - 117	
Toluene	1.0	U	10.0	9.22		ug/L	92	78 - 114	
trans-1,2-Dichloroethene	1.0	U	10.0	9.98		ug/L	100	80 - 119	
trans-1,3-Dichloropropene	1.0	U	10.0	8.54		ug/L	85	46 - 116	
1,2,4-Trichlorobenzene	1.0	U	10.0	7.13		ug/L	71	38 - 138	
1,1,1-Trichloroethane	4.9		10.0	14.6		ug/L	97	68 - 121	
1,1,2-Trichloroethane	1.0	U	10.0	9.24		ug/L	92	75 - 115	
Trichloroethene	20		10.0	28.6		ug/L	89	66 - 120	
Trichlorofluoromethane	1.0	U	10.0	7.24		ug/L	72	46 - 157	
Vinyl chloride	1.0	U	10.0	6.65		ug/L	66	49 - 130	
Xylenes, Total	2.0	U	30.0	28.8		ug/L	96	76 - 116	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-36 MS

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		66 - 117
Dibromofluoromethane (Surr)	92		75 - 121
1,2-Dichloroethane-d4 (Surr)	76		63 - 129
Toluene-d8 (Surr)	92		74 - 115

Lab Sample ID: 240-23650-36 MSD

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	1.1	J	20.0	9.31	J	ug/L	47	33 - 145	13	30	
Benzene	1.0	U	10.0	9.57		ug/L	96	72 - 121	1	30	
Bromodichloromethane	1.0	U	10.0	9.63		ug/L	96	67 - 120	3	30	
Bromoform	1.0	U	10.0	10.1		ug/L	101	32 - 128	1	30	
Bromomethane	1.0	U	10.0	4.67		ug/L	47	10 - 186	1	30	
2-Butanone (MEK)	10	U	20.0	13.8		ug/L	69	54 - 129	1	30	
Carbon disulfide	1.0	U	10.0	7.56		ug/L	76	57 - 147	4	30	
Carbon tetrachloride	1.0	U	10.0	9.87		ug/L	99	59 - 129	0	30	
Chlorobenzene	1.0	U	10.0	9.66		ug/L	97	80 - 110	2	30	
Chloroethane	1.0	U	10.0	5.90		ug/L	59	21 - 165	2	30	
Chloroform	1.0	U	10.0	9.48		ug/L	95	76 - 118	0	30	
Chloromethane	1.0	U	10.0	7.56		ug/L	76	33 - 132	16	30	
cis-1,2-Dichloroethene	2.9		10.0	12.6		ug/L	97	70 - 120	2	30	
cis-1,3-Dichloropropene	1.0	U	10.0	8.56		ug/L	86	51 - 110	2	30	
Dibromochloromethane	1.0	U	10.0	9.21		ug/L	92	56 - 118	4	30	
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.27		ug/L	83	32 - 139	0	30	
1,2-Dibromoethane	1.0	U	10.0	9.00		ug/L	90	74 - 113	6	30	
1,2-Dichlorobenzene	1.0	U	10.0	9.31		ug/L	93	75 - 111	4	30	
1,3-Dichlorobenzene	1.0	U	10.0	9.29		ug/L	93	73 - 110	1	30	
1,4-Dichlorobenzene	1.0	U	10.0	9.01		ug/L	90	75 - 110	2	30	
Dichlorodifluoromethane	1.0	U	10.0	4.19		ug/L	42	17 - 128	2	30	
1,1-Dichloroethane	4.0		10.0	13.1		ug/L	92	79 - 116	2	30	
1,2-Dichloroethane	1.0	U	10.0	8.91		ug/L	89	68 - 129	1	30	
1,1-Dichloroethene	0.48	J	10.0	8.76		ug/L	83	74 - 135	4	30	
1,2-Dichloropropane	1.0	U	10.0	9.23		ug/L	92	78 - 115	3	30	
Ethylbenzene	1.0	U	10.0	9.83		ug/L	98	75 - 116	6	30	
2-Hexanone	10	U	20.0	16.3		ug/L	82	47 - 139	2	30	
Isopropylbenzene	1.0	U	10.0	9.38		ug/L	94	68 - 116	5	30	
Methylene Chloride	1.0	U	10.0	8.38		ug/L	84	63 - 128	11	30	
4-Methyl-2-pentanone (MIBK)	10	U	20.0	16.3		ug/L	81	56 - 131	2	30	
Methyl tert-butyl ether	1.0	U	10.0	8.07		ug/L	81	46 - 144	2	30	
m-Xylene & p-Xylene	2.0		20.0	20.0		ug/L	100	75 - 117	4	30	
n-Hexane	1.0	U	10.0	8.44		ug/L	84	54 - 138	0	30	
o-Xylene	1.0		10.0	9.68		ug/L	97	76 - 116	1	30	
Styrene	1.0	U	10.0	10.0		ug/L	100	71 - 117	5	30	
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.71		ug/L	87	63 - 122	1	30	
Tetrachloroethene	3.3		10.0	14.4		ug/L	110	70 - 117	5	30	
Toluene	1.0	U	10.0	9.55		ug/L	95	78 - 114	4	30	

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-23650-36 MSD

Matrix: Water

Analysis Batch: 84603

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
trans-1,2-Dichloroethene	1.0	U	10.0	9.91		ug/L		99	80 - 119	1	30
trans-1,3-Dichloropropene	1.0	U	10.0	8.44		ug/L		84	46 - 116	1	30
1,2,4-Trichlorobenzene	1.0	U	10.0	7.12		ug/L		71	38 - 138	0	30
1,1,1-Trichloroethane	4.9		10.0	14.7		ug/L		98	68 - 121	1	30
1,1,2-Trichloroethane	1.0	U	10.0	9.34		ug/L		93	75 - 115	1	30
Trichloroethene	20		10.0	30.5		ug/L		108	66 - 120	6	30
Trichlorofluoromethane	1.0	U	10.0	6.82		ug/L		68	46 - 157	6	30
Vinyl chloride	1.0	U	10.0	6.60		ug/L		66	49 - 130	1	30
Xylenes, Total	2.0	U	30.0	29.7		ug/L		99	76 - 116	3	30
MSD MSD											
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		89		66 - 117							
Dibromofluoromethane (Surr)		91		75 - 121							
1,2-Dichloroethane-d4 (Surr)		84		63 - 129							
Toluene-d8 (Surr)		92		74 - 115							

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-83983/12-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 84395

Prep Batch: 83983

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
	Result	Qualifier									
Acenaphthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Acenaphthylene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Anthracene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Chrysene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Fluoranthene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Fluorene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Naphthalene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Phenanthrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
Pyrene	0.20	U	0.20	0.10	ug/L		04/29/13 11:39	05/02/13 09:08	1		
MB MB											
Surrogate		%Recovery	Qualifier	Limits							
2-Fluorobiphenyl (Surr)		53		20 - 110							
2-Fluorophenol (Surr)		53		10 - 110							
Nitrobenzene-d5 (Surr)		55		21 - 110							
Phenol-d5 (Surr)		54		21 - 110							
Terphenyl-d14 (Surr)		43		24 - 110							

TestAmerica Canton

QC Sample Results

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-83983/12-A

Matrix: Water

Analysis Batch: 84395

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83983

Surrogate	MB	MB	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)			54		21 - 110

Prepared 04/29/13 11:39 Analyzed 05/02/13 09:08 Dil Fac 1

Lab Sample ID: LCS 240-83983/13-A

Matrix: Water

Analysis Batch: 84395

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83983

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Acenaphthene	20.0	16.5		ug/L		83	47 - 110
Acenaphthylene	20.0	17.2		ug/L		86	49 - 110
Anthracene	20.0	17.1		ug/L		85	52 - 110
Benzo[a]anthracene	20.0	16.1		ug/L		81	52 - 110
Benzo[a]pyrene	20.0	13.3		ug/L		66	44 - 110
Benzo[b]fluoranthene	20.0	14.1		ug/L		70	48 - 110
Benzo[g,h,i]perylene	20.0	14.2		ug/L		71	50 - 110
Benzo[k]fluoranthene	20.0	15.5		ug/L		77	49 - 110
Chrysene	20.0	17.1		ug/L		85	55 - 110
Dibenz(a,h)anthracene	20.0	13.6		ug/L		68	49 - 110
Fluoranthene	20.0	17.6		ug/L		88	54 - 110
Fluorene	20.0	17.5		ug/L		87	52 - 110
Indeno[1,2,3-cd]pyrene	20.0	13.2		ug/L		66	50 - 110
2-Methylnaphthalene	20.0	15.5		ug/L		77	45 - 110
Naphthalene	20.0	15.9		ug/L		80	44 - 110
Phenanthrene	20.0	16.6		ug/L		83	53 - 110
Pyrene	20.0	16.5		ug/L		82	52 - 110

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
2-Fluorobiphenyl (Surr)	76				20 - 110
2-Fluorophenol (Surr)	75				10 - 110
Nitrobenzene-d5 (Surr)	76				21 - 110
Phenol-d5 (Surr)	75				21 - 110
Terphenyl-d14 (Surr)	54				24 - 110
2,4,6-Tribromophenol (Surr)	81				21 - 110

TestAmerica Canton

QC Association Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

GC/MS VOA

Analysis Batch: 84108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-1	CDFMW-1	Total/NA	Water	8260B	5
240-23650-1 MS	CDFMW-1	Total/NA	Water	8260B	5
240-23650-1 MSD	CDFMW-1	Total/NA	Water	8260B	5
240-23650-2	CDFMW-2	Total/NA	Water	8260B	6
240-23650-3	CDFMW-19	Total/NA	Water	8260B	7
240-23650-4	CDFMW-3	Total/NA	Water	8260B	7
240-23650-5	CDFMW-18	Total/NA	Water	8260B	8
240-23650-6	CDFMW-4	Total/NA	Water	8260B	8
240-23650-7	MW-36	Total/NA	Water	8260B	9
240-23650-8	CDFMW-14	Total/NA	Water	8260B	9
240-23650-9	MW-36D	Total/NA	Water	8260B	10
240-23650-10	CDFMW-9	Total/NA	Water	8260B	10
240-23650-11	MW-6	Total/NA	Water	8260B	11
240-23650-12	MW-29	Total/NA	Water	8260B	11
240-23650-13	MW-33	Total/NA	Water	8260B	12
240-23650-14	CDFMW-22	Total/NA	Water	8260B	12
240-23650-15	CDFMW-10	Total/NA	Water	8260B	13
240-23650-16	CDFMW-16	Total/NA	Water	8260B	13
LCS 240-84108/3	Lab Control Sample	Total/NA	Water	8260B	14
MB 240-84108/5	Method Blank	Total/NA	Water	8260B	14

Analysis Batch: 84430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-17	CDFMW-11	Total/NA	Water	8260B	
240-23650-18	CDFMW-23	Total/NA	Water	8260B	
240-23650-19	CDFMW-21	Total/NA	Water	8260B	
240-23650-20	CDFMW-7	Total/NA	Water	8260B	
240-23650-21	CDFMW-21D	Total/NA	Water	8260B	
240-23650-22	FW-9	Total/NA	Water	8260B	
240-23650-23	MW-19	Total/NA	Water	8260B	
240-23650-24	MW-45	Total/NA	Water	8260B	
240-23650-25	MW-43	Total/NA	Water	8260B	
240-23650-26	MW-35	Total/NA	Water	8260B	
240-23650-27	CDFMW-20	Total/NA	Water	8260B	
240-23650-28	MW-14	Total/NA	Water	8260B	
240-23650-29	MW-23	Total/NA	Water	8260B	
240-23650-30	MW-22	Total/NA	Water	8260B	
240-23650-31	MW-38	Total/NA	Water	8260B	
240-23650-32	MW-13	Total/NA	Water	8260B	
240-23650-33	MW-34	Total/NA	Water	8260B	
240-23650-34	CDFMW-12	Total/NA	Water	8260B	
240-23650-35	MW-44	Total/NA	Water	8260B	
240-23650-35 MS	MW-44	Total/NA	Water	8260B	
240-23650-35 MSD	MW-44	Total/NA	Water	8260B	
240-23650-41	TRIP BLANK	Total/NA	Water	8260B	
LCS 240-84430/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-84430/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 84603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-36	MW-5	Total/NA	Water	8260B	

TestAmerica Canton

QC Association Summary

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

GC/MS VOA (Continued)

Analysis Batch: 84603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-36 MS	MW-5	Total/NA	Water	8260B	
240-23650-36 MSD	MW-5	Total/NA	Water	8260B	
240-23650-37	MW-5D	Total/NA	Water	8260B	
240-23650-38	AMBIENT	Total/NA	Water	8260B	
240-23650-39	EB1-OEPA	Total/NA	Water	8260B	
240-23650-40	EB2-IE	Total/NA	Water	8260B	
LCS 240-84603/4	Lab Control Sample	Total/NA	Water	8260B	
MB 240-84603/5	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 83983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-14	CDFMW-22	Total/NA	Water	3520C	
240-23650-15	CDFMW-10	Total/NA	Water	3520C	
240-23650-17	CDFMW-11	Total/NA	Water	3520C	
240-23650-20	CDFMW-7	Total/NA	Water	3520C	
LCS 240-83983/13-A	Lab Control Sample	Total/NA	Water	3520C	
MB 240-83983/12-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 84395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-23650-14	CDFMW-22	Total/NA	Water	8270C	
240-23650-15	CDFMW-10	Total/NA	Water	8270C	
240-23650-17	CDFMW-11	Total/NA	Water	8270C	
240-23650-20	CDFMW-7	Total/NA	Water	8270C	
LCS 240-83983/13-A	Lab Control Sample	Total/NA	Water	8270C	
MB 240-83983/12-A	Method Blank	Total/NA	Water	8270C	

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Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-1

Date Collected: 04/22/13 13:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 13:44	RQ	TAL CAN

Client Sample ID: CDFMW-2

Date Collected: 04/22/13 11:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 14:06	RQ	TAL CAN

Client Sample ID: CDFMW-19

Date Collected: 04/22/13 13:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 14:28	RQ	TAL CAN

Client Sample ID: CDFMW-3

Date Collected: 04/22/13 16:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 14:49	RQ	TAL CAN

Client Sample ID: CDFMW-18

Date Collected: 04/22/13 15:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 15:10	RQ	TAL CAN

Client Sample ID: CDFMW-4

Date Collected: 04/22/13 15:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 15:32	RQ	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-36

Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 15:54	RQ	TAL CAN

Client Sample ID: CDFMW-14

Date Collected: 04/22/13 16:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 16:16	RQ	TAL CAN

Client Sample ID: MW-36D

Date Collected: 04/22/13 18:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 16:37	RQ	TAL CAN

Client Sample ID: CDFMW-9

Date Collected: 04/22/13 17:20
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 16:58	RQ	TAL CAN

Client Sample ID: MW-6

Date Collected: 04/23/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 17:20	RQ	TAL CAN

Client Sample ID: MW-29

Date Collected: 04/23/13 09:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 17:42	RQ	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-33

Date Collected: 04/22/13 18:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 18:04	RQ	TAL CAN

Client Sample ID: CDFMW-22

Date Collected: 04/23/13 10:55
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 18:26	RQ	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		1	84395	05/02/13 16:28	TH	TAL CAN

Client Sample ID: CDFMW-10

Date Collected: 04/23/13 11:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 18:47	RQ	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		1	84395	05/02/13 16:50	TH	TAL CAN

Client Sample ID: CDFMW-16

Date Collected: 04/23/13 15:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84108	04/30/13 19:08	RQ	TAL CAN

Client Sample ID: CDFMW-11

Date Collected: 04/23/13 14:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 12:09	LE	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		50	84395	05/02/13 17:34	TH	TAL CAN

Client Sample ID: CDFMW-23

Date Collected: 04/23/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 12:32	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: CDFMW-21

Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 12:55	LE	TAL CAN

Client Sample ID: CDFMW-7

Date Collected: 04/23/13 12:25
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 13:40	LE	TAL CAN
Total/NA	Prep	3520C			83983	04/29/13 11:39	BM	TAL CAN
Total/NA	Analysis	8270C		1	84395	05/02/13 17:12	TH	TAL CAN

Client Sample ID: CDFMW-21D

Date Collected: 04/23/13 15:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 14:03	LE	TAL CAN

Client Sample ID: FW-9

Date Collected: 04/24/13 15:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 14:25	LE	TAL CAN

Client Sample ID: MW-19

Date Collected: 04/24/13 12:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	84430	05/02/13 14:48	LE	TAL CAN

Client Sample ID: MW-45

Date Collected: 04/24/13 11:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 15:11	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-43

Date Collected: 04/24/13 09:45
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 15:33	LE	TAL CAN

Client Sample ID: MW-35

Date Collected: 04/23/13 17:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 15:56	LE	TAL CAN

Client Sample ID: CDFMW-20

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 16:19	LE	TAL CAN

Client Sample ID: MW-14

Date Collected: 04/24/13 12:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 16:42	LE	TAL CAN

Client Sample ID: MW-23

Date Collected: 04/25/13 09:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 17:05	LE	TAL CAN

Client Sample ID: MW-22

Date Collected: 04/25/13 09:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 17:27	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-38

Date Collected: 04/24/13 15:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 17:50	LE	TAL CAN

Client Sample ID: MW-13

Date Collected: 04/24/13 17:35
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 18:13	LE	TAL CAN

Client Sample ID: MW-34

Date Collected: 04/23/13 18:10
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 18:36	LE	TAL CAN

Client Sample ID: CDFMW-12

Date Collected: 04/23/13 16:40
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 18:58	LE	TAL CAN

Client Sample ID: MW-44

Date Collected: 04/24/13 10:05
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 19:21	LE	TAL CAN

Client Sample ID: MW-5

Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 12:24	LE	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Ohio EPA CO
Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Client Sample ID: MW-5D

Date Collected: 04/24/13 11:15
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 12:47	LE	TAL CAN

Client Sample ID: AMBIENT

Date Collected: 04/24/13 10:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-38

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 13:10	LE	TAL CAN

Client Sample ID: EB1-OEPA

Date Collected: 04/24/13 09:30
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-39

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 13:32	LE	TAL CAN

Client Sample ID: EB2-IE

Date Collected: 04/24/13 09:50
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84603	05/03/13 13:55	LE	TAL CAN

Client Sample ID: TRIP BLANK

Date Collected: 04/22/13 00:00
Date Received: 04/25/13 11:00

Lab Sample ID: 240-23650-41

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	84430	05/02/13 13:17	LE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Certification Summary

Client: Ohio EPA CO

Project/Site: White Engine

TestAmerica Job ID: 240-23650-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	07-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
West Virginia DEP	State Program	3	210	12-31-13
Wisconsin	State Program	5	999518190	08-31-13

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TestAmerica

Chain of Custody Record

TestAmerica Laboratories, Inc.

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

Regulatory program:

DW

NPDES

RCRA

Other

Company Name:	Ohio EPA - DEPR-SIPEI	Client Project Manager:	Victoria Siger	Site Contact:	Same	Lab Contact:	Denice Pohl
Address:	4675 Homer Ohio Lane	Telephone:	614 836 8757	Telephone:	—	Telephone:	330 497 9396
City/State/Zip:	Columbus, OH 43225	Email:	Victoria.Siger@epa.state.oh.us				
Phone:	614 836 8757						
Project Name:	White Engine	Method of Shipment/CARRIER:	Shippert				
Project Number:	—	Shipping/Tracking No.:	—				
PO #:							

Sample Identification		Sample Date	Sample Time	Time	Containers & Preservatives			
					Atm	HNO3	HCl	
					Agarous	H2SO4	NaOH	ZnAcetate
					Sediment	NaOH	NaOH	NaOH
					Solid			
					Other:			
Analysis Turnaround Time (in BUS days)		TAT is different from below						
		<input checked="" type="checkbox"/> 3 weeks						
		<input type="checkbox"/> 2 weeks						
		<input type="checkbox"/> 1 week						
		<input type="checkbox"/> 2 days						
		<input type="checkbox"/> 1 day						
Diluted Sample (Y/N)								
Composite/C/Grob G								
Sample Specific Notes / Special Instructions:								

CDF MW-1	4/22/13	1355	<input checked="" type="checkbox"/>					
CDF MW-2	4/22/13	1155	<input checked="" type="checkbox"/>					
CDF MW-9	4/22/13	1350	<input checked="" type="checkbox"/>					
CDF MW-3	4/22/13	1600	<input checked="" type="checkbox"/>					
CDF MW-18	4/22/13	1500	<input checked="" type="checkbox"/>					
CDF MW-4	4/22/13	1505	<input checked="" type="checkbox"/>					
MW-36	4/22/13	1800	<input checked="" type="checkbox"/>					
cDF MW-14	4/22/13	1615	<input checked="" type="checkbox"/>					
MW-36D	4/22/13	1800	<input checked="" type="checkbox"/>					
CDEM/W-9	4/22/13	1720	<input checked="" type="checkbox"/>					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Return to Client Archive For Months

Special Instructions/QC Requirements & Comments:
8260 VAP Certified Data Package

Relinquished by: <i>JH</i>	Company: EPA	Date/Time: 4/25/13	Received by: <i>Denice Pohl</i>	Date/Time: 4/29/13
Relinquished by: <i>JH</i>	Company: —	Date/Time: —	Received in Laboratory by: —	Company: —
Relinquished by: <i>JH</i>	Company: —	Date/Time: —	Received in Laboratory by: —	Company: —

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Chain of Custody Record

TAL-4142 (0408)

Client: Ohio EPA-DERR-SITU

Address:

4675 Hamer Ohio Lane

City:

Groveport OH 43225

State:

43125

Zip Code:

Project Name and Location (State):

White Engine, Ohio

Contract/Purchase Order/Quote No.:

Project Manager	Victoria Siger	Date	4/25/13	Chain of Custody Number	015057
Telephone Number (Area Code)	614 863 8757	Lab Number	—	Page	2 of 4

Special Instructions/
Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives			
				Uptiles	H2SO4	HNO3	HCl
MW-6	4/23/13	1600	B	✓			✓
MW-29	4/23/13	0840		✓		3	3
MW-33	4/22/13	1825		✓		3	3
MW-37 CDF MW-22	4/22/13	1855		✓		3	3
CDF MW-10	4/23/13	1110		✓		2	3
CDF MW-16	4/23/13	1550		✓		3	3
CDF MW-17	4/23/13	1445		✓		2	3
CDF MW-23	4/23/13	1230		✓		3	3
CDF MW-24	4/23/13	1515		✓		3	3
CDF MW-7	4/23/13	1225		✓		2	3
CDF MW-21D	4/23/13	1515		✓		3	3
FW-9	4/24/13	1540		-		3	3

Possible Hazard Identification

Non-Hazard

Flammable

Skin Irritant

Poison A

Poison B

Unknown

Sample Disposal

Return To Client

Disposal By Lab

Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify)

1. Received By

2. Received By

3. Received By

Comments

Turn Around Time Requested

24 Hours

48 hours

7 Days

14 Days

21 Days

Other _____

Other _____

1. Relinquished By

2. Relinquished By

3. Relinquished By

Date _____

Time _____

Date _____

Time _____

Date _____

Time _____

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica Laboratory location:
Regulatory program: DW NPDES RCRA Other UAP

Client Contact		Site Contact:		Lab Contact:	
Company Name:	Victoria Sigler	Site Contact:	Denise Dohi	Telephone:	330 467 9396
Address:	614 836 8157	Telephone:	-		
City/State/Zip:	Avonport, OH 43125				
Phone:	614 836 8157				
Project Name:	White Engine				
Project Number:	-				
P O #					
Sample Identification					
Sample Date	Sample Time	Sample/Time	Sample/Time	Sample/Time	Sample/Time
MW-19	4/24/13	1240	✓	3	✓
MW-45	4/24/13	1105	✓	3	✓
MW-43	4/24/13	0945	✓	3	✓
MW-35	4/23/13	1750	✓	3	✓
C&F MW-20	4/23/13	1640	✓	3	✓
MW-14	4/24/13	1230	✓	3	✓
MW-23	4/25/13	0930	✓	3	✓
MW-22	4/25/13	0935	✓	3	✓
MW-9 MW-38	4/25/13	1520	✓	3	✓
MW-38	4/24/13	1530	✓	3	✓
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input checked="" type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison A	<input type="checkbox"/> Unknown	<input type="checkbox"/> Poison B
Special Instructions/QC Requirements & Comments:					
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

 Disposal By Lab Return to Client Archive For _____ Months

UAP Certified Data Package

Relinquished by: *[Signature]* Received by: *[Signature]* Company: *UAP* Date/Time: *4/25/13 1500*

Relinquished by: *[Signature]* Received by: *[Signature]* Company: *UAP* Date/Time: *4/25/13 1600*

Relinquished by: *[Signature]* Received in Laboratory by: *[Signature]* Company: *UAP* Date/Time: *4/25/13 1600*

Chain of Custody Record

TestAmerica Laboratory location: CantonRegulatory program: DW NPDES RCRA Other VAP

Client Contact		Site Contact:		Lab Contact:		TestAmerica Laboratories, Inc.	
Company Name:	<u>Ohio EPA - DER - SJFU</u>	Client Project Manager:	<u>Victoria Sigler</u>	Telephone:	<u>same</u>	Telephone:	<u>Denise Phhl</u>
Address:	<u>4675 Homer Ohio Lane</u>	Telephone:	<u>(614)834-8757</u>	Email:	<u>victoria.sigler@epa.gov</u>	Telephone:	<u>330-497-9396</u>
City/State/Zip:	<u>Groveport, OH 43125</u>	Method of Shipment/Carrier:	<u>Dropoff</u>	Shipping/Tracking No.:	<u>—</u>	For lab use only	<input type="checkbox"/> If of <u>4</u> COCs
Phone:	<u>614 834 8757</u>	TAT if different from below _____	<input checked="" type="checkbox"/> 3 weeks	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 1 week	<input type="checkbox"/> 2 days	<input type="checkbox"/> 1 day
Project Name:	<u>White Engine</u>	Compliance Sample/C/ Grade/C	<input type="checkbox"/> Differented Sample (Y/N)	<input type="checkbox"/> Same	<input type="checkbox"/> Same	<input type="checkbox"/> Same	<input type="checkbox"/> Same
Project Number:	<u>—</u>	Containers & Preservatives:	<input type="checkbox"/> HCl	<input type="checkbox"/> NaOH	<input type="checkbox"/> ZnAcOH	<input type="checkbox"/> Toluene	<input type="checkbox"/> Other:
P O #		Matrix:	<input type="checkbox"/> H2SO4	<input type="checkbox"/> Na3O3	<input type="checkbox"/> NaOH	<input type="checkbox"/> Acetone	<input type="checkbox"/> Other:
Sample Identification		Sample Date	Sample/Time	Special Instructions:			
MW-13	4/24/13	1235	✓	3	✓	✓	✓
MW-34	4/23/13	1810	✓	3	✓	✓	✓
CDF MW-12	4/23/13	1040	✓	3	✓	✓	✓
MW-44	4/24/13	1035	✓	3	✓	✓	✓
MW-5	4/24/13	1115	✓	3	✓	✓	✓
MW-5.D	4/24/13	1115	✓	3	✓	✓	✓
Ambient	4/24/13	1000	✓	3	✓	✓	✓
EBI - SEP4	4/24/13	0930	✓	3	✓	✓	✓
EZ EB2-IE	4/24/13	0950	✓	3	✓	✓	✓
TRIP Blank			✓	3	✓	✓	✓
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months
Special Instructions/QC Requirements & Comments: <u>VAP Certified data package</u>							
Relinquished by:	Company:	Date/Time:	Received by:	Comments:	Date/Time:	Company:	Date/Time:
Reinquished by:	Company:	Date/Time:	Received by:	Comments:	Date/Time:	Company:	Date/Time:
Reinquished by:	Company:	Date/Time:	Received in Laboratory by:	Comments:	Date/Time:	Company:	Date/Time:



TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 231450

Client <u>Ohio EPA-DERR-SIFY</u>	Site Name _____	Cooler unpacked by: <u>Alfred Stein</u>
Cooler Received on <u>4-25-13</u>	Opened on <u>4-25-13</u>	
FedEx: 1 st Grd Exp UPS FAS Stetson	Client Drop Off	TestAmerica Courier Other _____
TestAmerica Cooler # _____	Foam Box Client Cooler	Box Other _____
Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag	None	Other _____
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water	None	
1. Cooler temperature upon receipt		
IR GUN# 1 (CF -0 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	See Multiple Cooler Form
IR GUN# 4G (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5G (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8 (CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>0</u>		
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes <u>No</u>	
-Were custody seals on the bottle(s)?	Yes <u>No</u>	
3. Shippers' packing slip attached to the cooler(s)?	Yes <u>No</u>	
4. Did custody papers accompany the sample(s)?	Yes <u>No</u>	
5. Were the custody papers relinquished & signed in the appropriate place?	Yes <u>No</u>	
6. Did all bottles arrive in good condition (Unbroken)?	Yes <u>No</u>	
7. Could all bottle labels be reconciled with the COC?	Yes <u>No</u>	
8. Were correct bottle(s) used for the test(s) indicated?	Yes <u>No</u>	
9. Sufficient quantity received to perform indicated analyses?	Yes <u>No</u>	
10. Were sample(s) at the correct pH upon receipt?	Yes <u>No</u> NA pH Strip Lot# <u>HC379740</u>	
11. Were VOAs on the COC?	Yes <u>No</u>	
12. Were air bubbles >6 mm in any VOA vials?	Yes <u>No</u> NA	
13. Was a trip blank present in the cooler(s)?	Yes <u>No</u>	
Contacted PM _____ Date _____ by _____	via Verbal Voice Mail Other	
Concerning _____		

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: RJ

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

**TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility**

Login #: 23650

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Affidavit of VAP Certified Laboratory

State of Ohio)
)
County of Stark)

ss:

I, Opal Davis-Johnson being first duly sworn according to law, state that, to the best of my knowledge, information and belief:

1. I am an adult over the age of eighteen years old and competent to testify herein.
2. I am employed by TestAmerica Laboratories, Inc. ("the laboratory") as Laboratory Director. I am authorized to submit this affidavit on behalf of the laboratory.
3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action Program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.
4. TestAmerica Canton performed analyses for Ohio EPA for a voluntary action at property known as **The Former Hercules Engine, 101 11th Street SE, Canton, Stark County, OH 44707**.
5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID
240-23650-1

Date of Document
May 13, 2013

6. TestAmerica Canton was a VAP certified laboratory pursuant to OAC 3745-300-04 when it performed the analyses referenced herein.
7. All analyses under this affidavit consist of VAP "certified data" as described in OAC 3745-300-04(A) - - unless paragraph b., below, specifies the exceptions:
 - a. The laboratory performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.
 - b. Exceptions, if any:

<u>Sample Number / Document ID</u>	<u>Analyte / Parameter Group</u>	<u>Method</u>
Not applicable.		

Certified Lab Affidavit Pursuant to OAC 3745-300-13(N)
Page 2

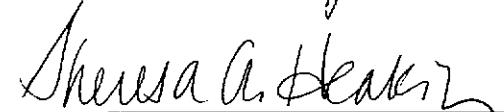
8. The information, data, documents and reports identified under this affidavit are true, accurate and complete.

Further affiant sayeth naught.



Signature of Affiant

Sworn to before me and subscribed in my presence this 14th day of May, 2013.



Theresa A. Heakin
Notary Public



THERESA A. HEAKIN
Notary Public, State of Ohio
My Commission Expires 08-28-2013